LC-30AA1H
LC-37AA1H

LCD COLOUR TELEVISION

ENGLISH

ENGLISH

OPERATION MANUAL

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Dear SHARP customer

Thank you for your purchase of the SHARP LCD colour TV product. To ensure safety and many years of trouble-free operation of your product, please read the Important Safety Precautions carefully before using this product.

Important Safety Precautions

Electricity is used to perform many useful functions, but it can also cause personal injuries and property damage if improperly handled. This product has been engineered and manufactured with the highest priority on safety. However, improper use can result in electric shock and/or fire. In order to prevent potential danger, please observe the following instructions when installing, operating and cleaning the product. To ensure your safety and prolong the service life of your LCD colour TV product, please read the following precautions carefully before using the product.

1. Read instructions—All operating instructions must be read and understood before the product is operated.
2. Keep this manual in a safe place—These safety and operating instructions must be kept in a safe place for future reference.
3. Observe warnings—All warnings on the product and in the instructions must be observed closely.
4. Follow instructions—All operating instructions must be followed.
5. Attachments—Do not use attachments not recommended by the manufacturer. Use of inadequate attachments can result in accidents.
6. Power source—This product must operate on a power source specified on the specification label. If you are not sure of the type of power supply used in your home, consult your dealer or local power company.
7. AC cord protection—The AC cords must be routed properly to prevent people from stepping on them or objects from resting on them. Check the cords at the plugs and product.
8. Overloading—Do not overload AC outlets or extension cords. Overloading can cause fire or electric shock.
9. Entering of objects and liquids—Never insert an object into the product through vents or openings. High voltage flows in the product, and inserting an object can cause electric shock and/or short internal parts. For the same reason, do not spill water or liquid on the product.
10. Servicing—Do not attempt to service the product yourself. Removing covers can expose you to high voltage and other dangerous conditions. Request a qualified service person to perform servicing.
11. Repair—If any of the following conditions occurs, unplug the AC cord from the AC outlet, and request a qualified service person to perform repairs.
    a. When the AC cord or plug is damaged.
    b. When a liquid was spilled on the product or when objects have fallen into the product.
    c. When the product has been exposed to rain or water.
    d. When the product does not operate properly as described in the operating instructions.
    Do not touch the controls other than those described in the operating instructions. Improper adjustment of controls not described in the instructions can cause damage, which often requires extensive adjustment work by a qualified technician.
    e. When the product has been dropped or damaged.
    f. When the product displays an abnormal condition. Any noticeable abnormality in the product indicates that the product needs servicing.
12. Replacement parts—In case the product needs replacement parts, make sure that the service person uses replacement parts specified by the manufacturer, or those with the same characteristics and performance as the original parts. Use of unauthorized parts can result in fire, electric shock and/or other danger.
13. Safety checks—Upon completion of service or repair work, request the service technician to perform safety checks to ensure that the product is in proper operating condition.
14. Wall or ceiling mounting—When mounting the product on a wall or ceiling, be sure to install the product according to the method recommended by the manufacturer.

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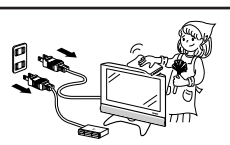
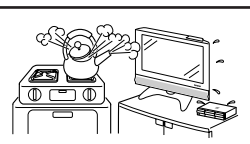
Important Safety Precautions

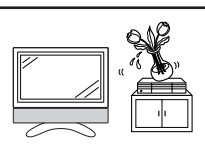
- Cleaning—Unplug the AC cord from the AC outlet before cleaning the product. Use a damp cloth to clean the product. Do not use liquid cleaners or aerosol cleaners.



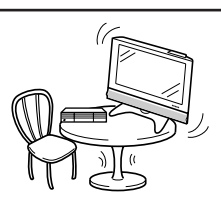
- Water and moisture—Do not use the product near water, such as bathtub, washbasin, kitchen sink, laundry tub, swimming pool and in a wet basement.



- Do not place vases or any other water-filled containers on this product. The water may spill onto the product causing fire or electric shock.

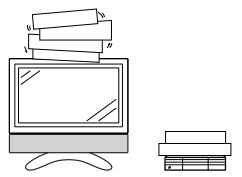


- Stand—Do not place the product on an unstable cart, stand, tripod or table. Doing so can cause the product to fall, resulting in serious personal injuries as well as damage to the product. Use only a cart, stand, tripod, bracket or table recommended by the manufacturer or sold with the product. When mounting the product on a wall, be sure to follow the manufacturer's instructions. Use only the mounting hardware recommended by the manufacturer.

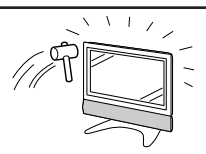


- When relocating the product placed on a cart, it must be moved with utmost care. Sudden stops, excessive force and uneven floor surface can cause the product to fall from the cart.

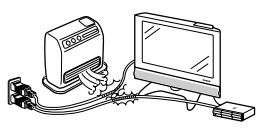
- Ventilation—The vents and other openings in the cabinet are designed for ventilation. Do not cover or block these vents and openings since insufficient ventilation can cause overheating and/or shorten the life of the product. Do not place the product on a bed, sofa, rug or other similar surface, since they can block ventilation openings. This product is not designed for built-in installation; do not place the product in an enclosed place such as a bookcase or rack, unless proper ventilation is provided or the manufacturer's instructions are followed.



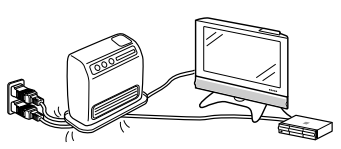
- The LCD panel used in this product is made of glass. Therefore, it can break when the product is dropped or applied with impact. Be careful not to be injured by broken glass pieces in case the LCD panel breaks.



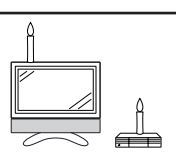
- Heat sources—Keep the product away from heat sources such as radiators, heaters, stoves and other heat-generating products (including amplifiers).



- To prevent fire or shock hazard, do not place the AC power cord under the TV set or other heavy items.



- To prevent fire, never place any type of candle or naked flames on the top or near the TV set.



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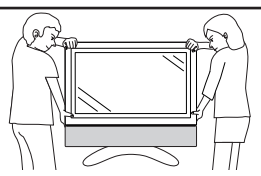
Important Safety Precautions

LC-37AA1H
The LCD panel is a very high technology product with 3,147,264 thin film transistors, giving you fine picture details.
Occasionally, a few non-active pixels may appear on the screen as a fixed point of blue, green or red. Please note that this does not affect the performance of your product.

LC-30AA1H
The LCD panel is a very high technology product with 2,949,120 thin film transistors, giving you fine picture details.
Occasionally, a few non-active pixels may appear on the screen as a fixed point of blue, green or red. Please note that this does not affect the performance of your product.

Precautions when transporting the Display
When transporting the Display, never carry it by holding onto the speakers. Be sure to always carry the Display by two people holding it with two hands—one hand on each side of the display.



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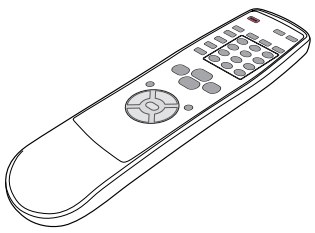
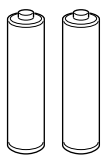
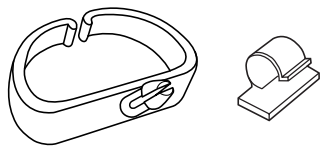
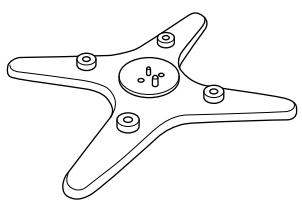
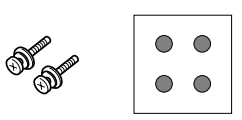
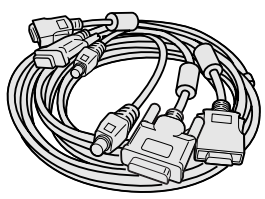
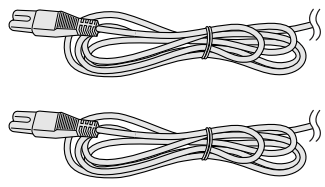
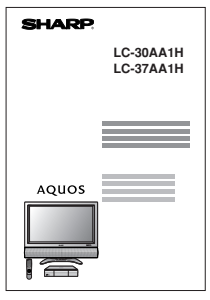
Supplied accessories

Make sure the following accessories are provided with the product.

Remote control unit (×1)	"AA" size battery (×2)	Cable clamp (Large ×1, Small ×1)
		
Page 13	Page 13	Page 8
Stand unit (for AVC System) (×1)	**System cable (×1)**	**Antenna cable (×1)**
 		
Stand (×1) Stand cushion (×4) Stand spacer (×4) Stand screw (×2)	Page 7	Page 18
Page 12	**AC cord (×2)**	**Operation manual**
		
	Page 7	

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Preparation

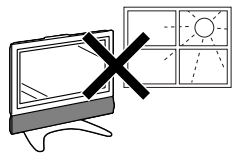
Where to place the System

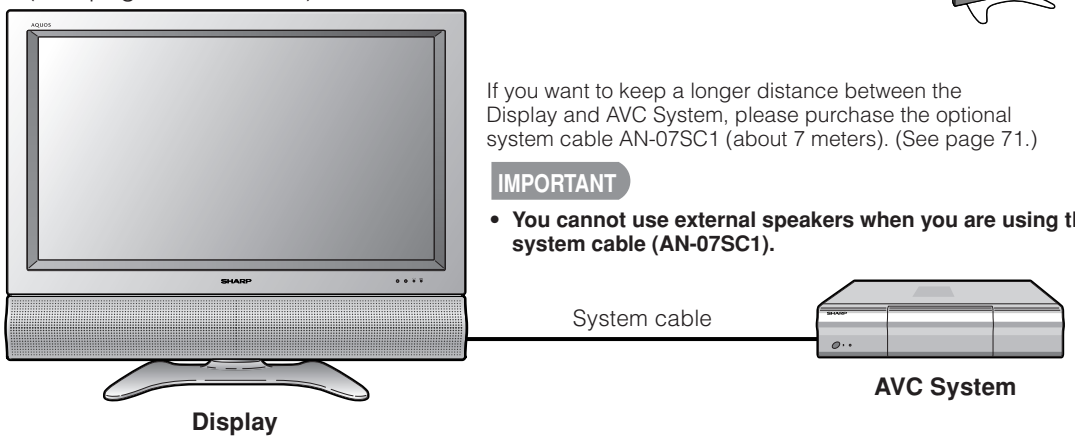
"System" means the Display and AVC System. First select the location where to place the System.

1

Selecting the location of the System

- Select a place with no direct sunlight and good ventilation.
- The Display and the AVC System are connected by the system cable. (See page 7 for details.)





If you want to keep a longer distance between the Display and AVC System, please purchase the optional system cable AN-07SC1 (about 7 meters). (See page 71.)

IMPORTANT

- **You cannot use external speakers when you are using the optional system cable (AN-07SC1).**

2

Setting the System in place

Handling the Display

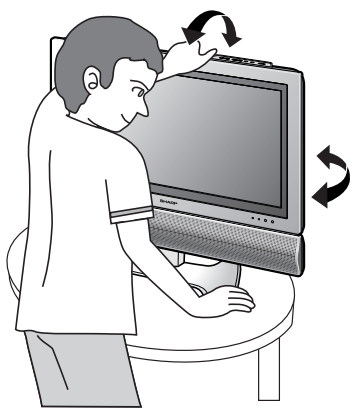
CAUTION

- The LC-37AA1H Display weighs about 25 kg and the LC-30AA1H Display weighs about 20 kg. Move it with two or more people.
- Do not remove the stand from the Display unless using an optional bracket to mount it.
- Keep enough space above and behind the Display.

Handling the AVC System

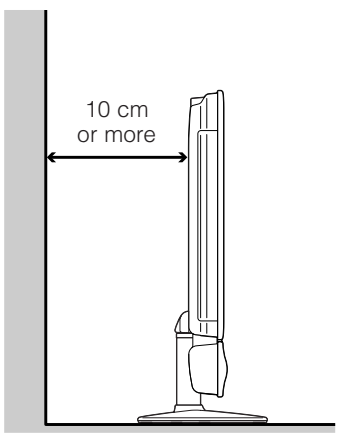
CAUTION

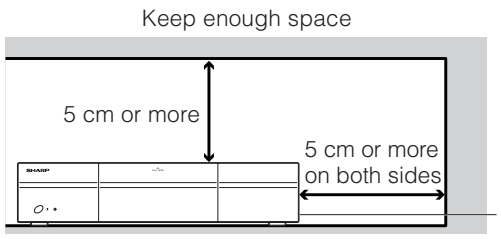
- Do not put a VCR or other device on the AVC System.
- Keep enough space above and on the sides of the AVC System.
- Do not block the ventilation openings on the top and left side, and the exhaust fan on the right side.
- Do not spread a thick cloth beneath the AVC System, or cover it with one, as this can cause overheating and result in malfunction.



CAUTION

Adjust the screen with both hands. Put one hand on the Display and tilt the screen while steadying the stand with your other hand.
You can adjust the screen vertically up to 4 degrees forward or 6 degrees backward, or rotate 10 degrees horizontally.





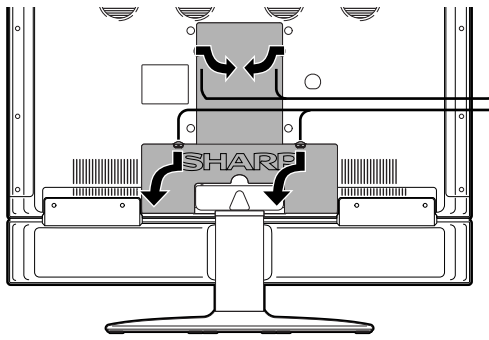
Setting the System

■ LC-37AA1H

After putting the Display and the AVC System in place, connect the system cables and AC cords. Use the cable clamps for bundling the cables.

1 Removing the terminal cover

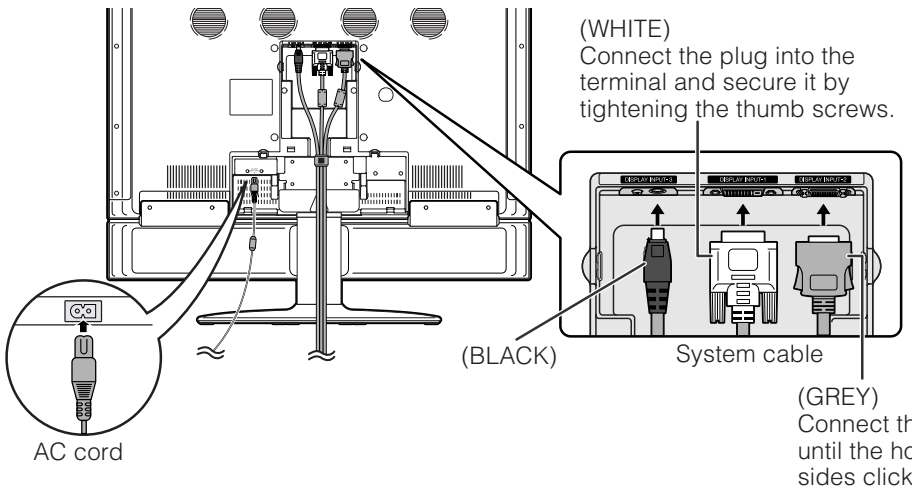
Display (rear view)



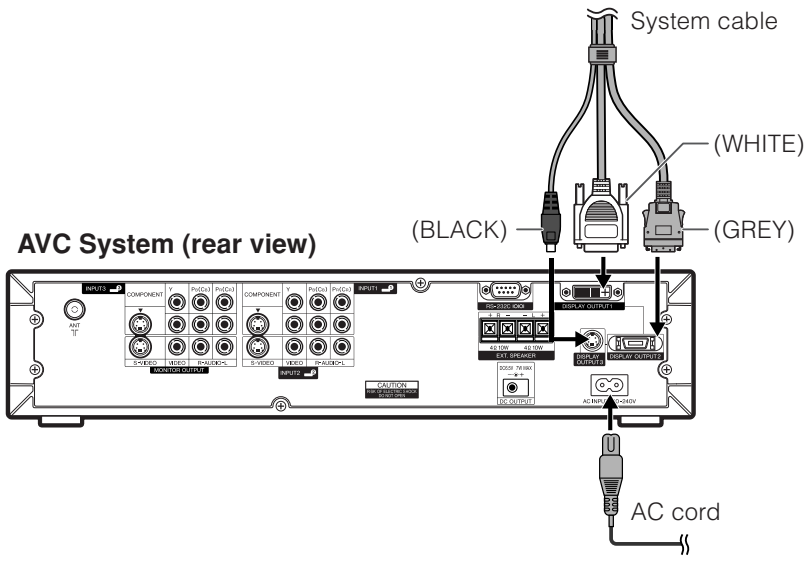
Press the two hooks toward the centre of the Display and remove the cover toward you.

Press down the two upper hooks to remove the cover toward you.

2 Connecting the system cable and the AC cord to the Display


(WHITE)
Connect the plug into the terminal and secure it by tightening the thumb screws.
(BLACK)
System cable
(GREY)
Connect the plug firmly until the hooks on both sides click.
AC cord

3 Connecting the system cable and the AC cord to the AVC System



CAUTION

- **TO PREVENT RISK OF ELECTRIC SHOCK, DO NOT TOUCH UN-INSULATED PARTS OF ANY CABLES WITH THE AC CORD CONNECTED.**

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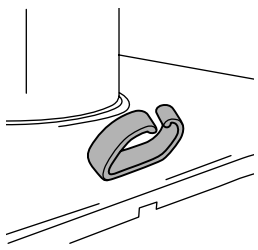
4 **Attaching the clamps and bundling the cables with the clamp**

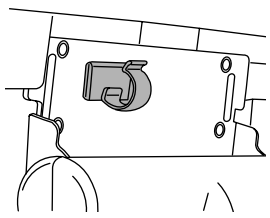
Cable clamp (Large)

Insert the cable clamp in the hole on the Display leg as shown.

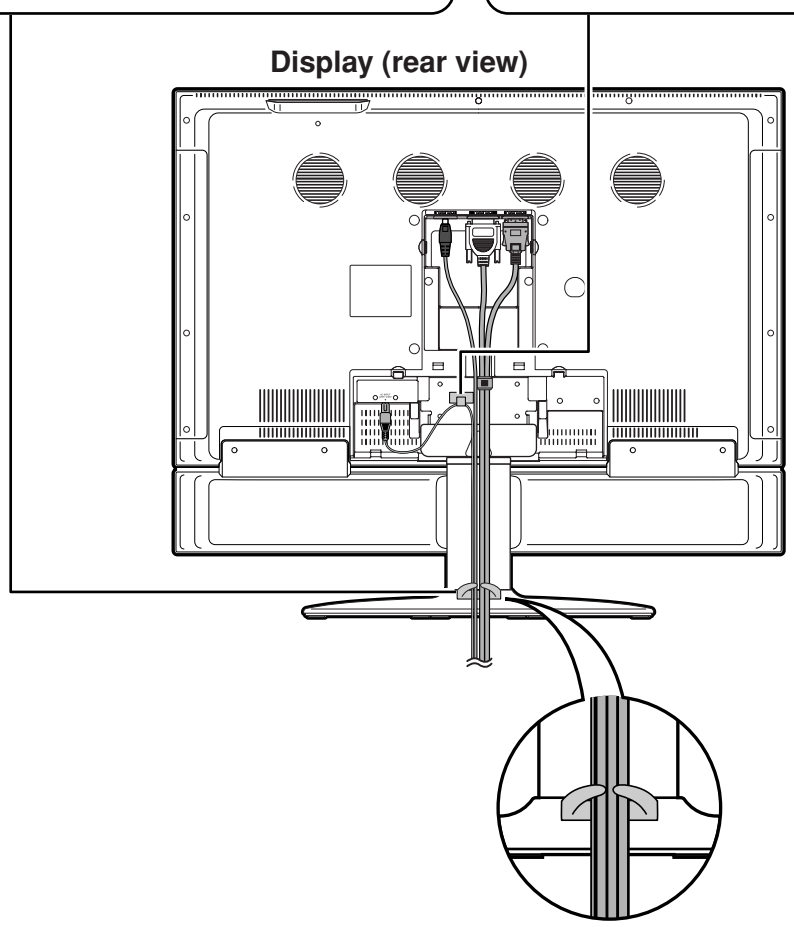


Cable clamp (Small)

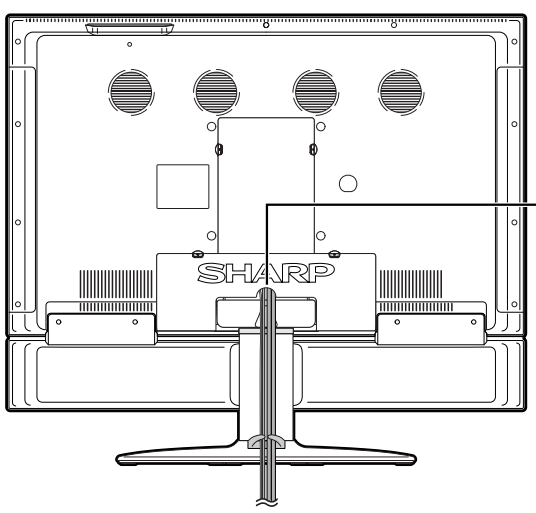
Peel off the seal on the back and attach as shown.



Display (rear view)



5 **Closing the terminal cover**



Cables come out from the small opening.

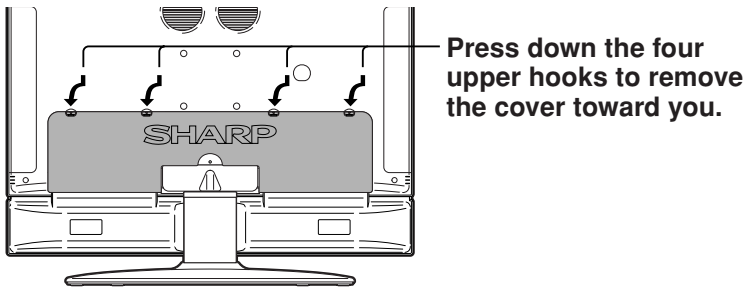
Setting the System

■ LC-30AA1H

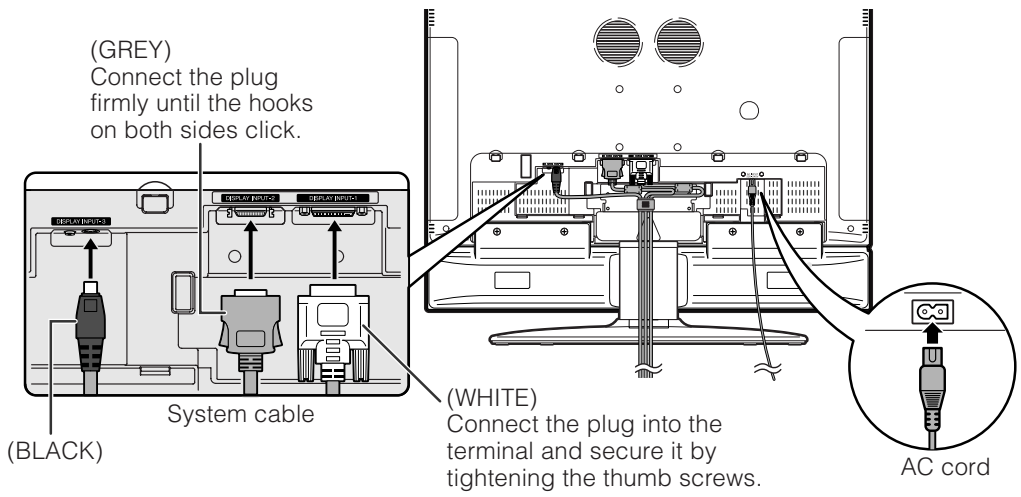
After putting the Display and the AVC System in place, connect the system cables and AC cords. Use the cable clamps for bundling the cables.

1 **Removing the terminal cover**

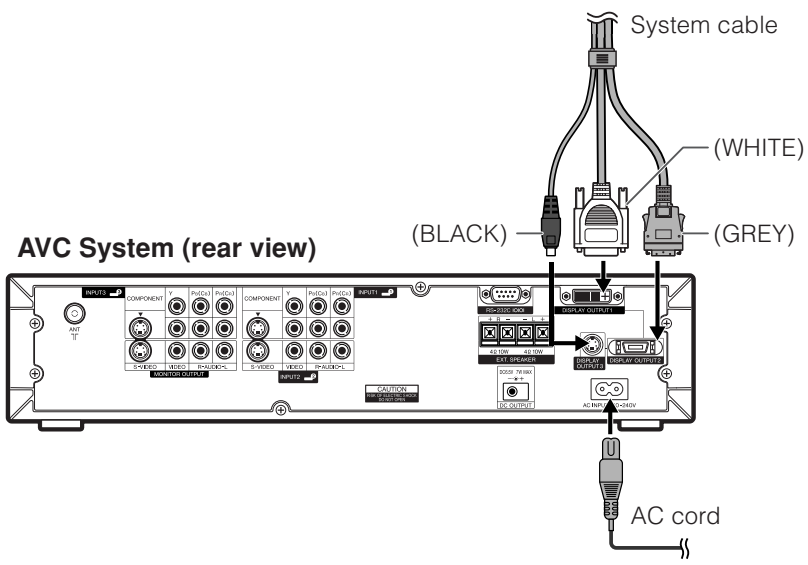
Display (rear view)



2 **Connecting the system cable and the AC cord to the Display**


(GREY)
Connect the plug firmly until the hooks on both sides click.
System cable
(BLACK)
(WHITE)
Connect the plug into the terminal and secure it by tightening the thumb screws.
AC cord

3 **Connecting the system cable and the AC cord to the AVC System**



CAUTION

- **TO PREVENT RISK OF ELECTRIC SHOCK, DO NOT TOUCH UN-INSULATED PARTS OF ANY CABLES WITH THE AC CORD CONNECTED.**

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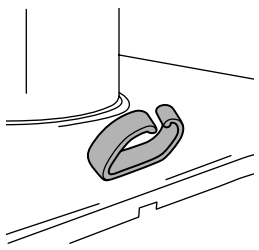
4 Attaching the clamps and bundling the cables with the clamp

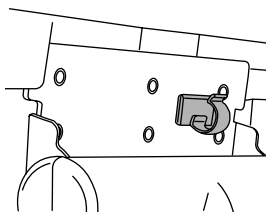
Cable clamp (Large)

Insert the cable clamp in the hole on the Display leg as shown.

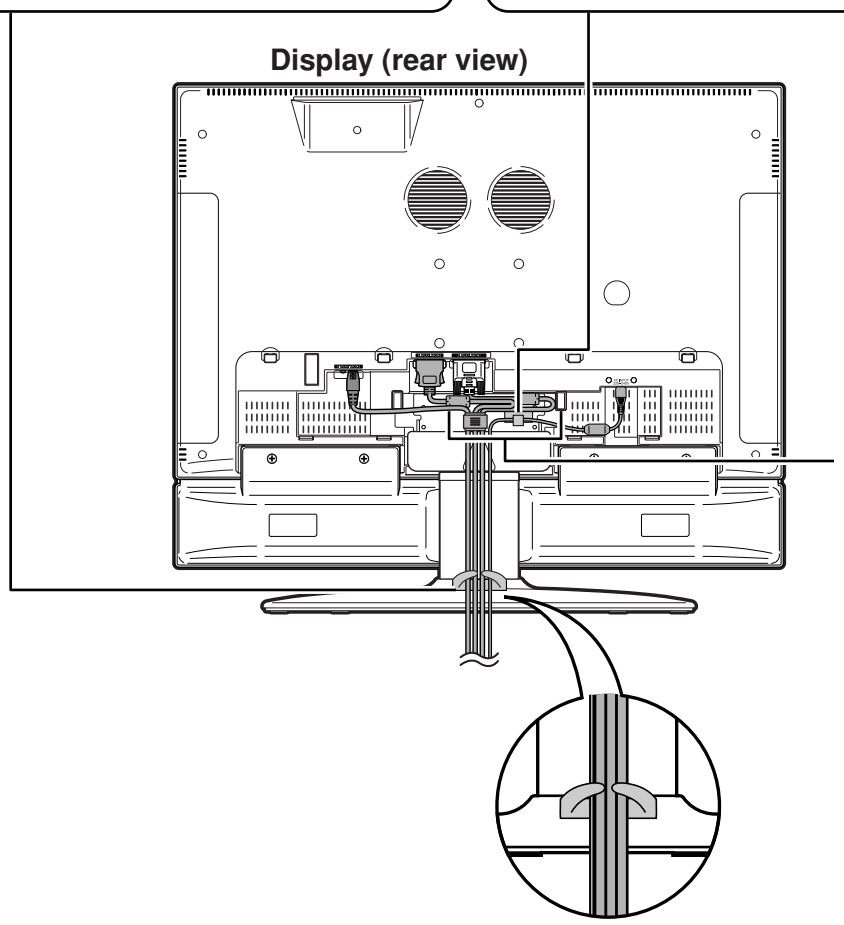


Cable clamp (Small)

Peel off the seal on the back and attach as shown.

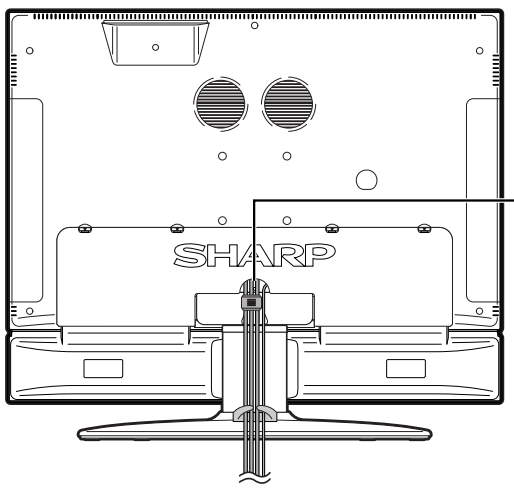


Display (rear view)



Arrange the system cable as shown in the illustration.

5 Closing the terminal cover



Cables come out from the small opening.

Removing the stand and speaker

This unit has detachable type speaker.

You can detach the system speaker when using external speaker.
Before removing (or attaching) speaker, unplug the AC cord from the AC outlet and the system cable from the Display.

CAUTION

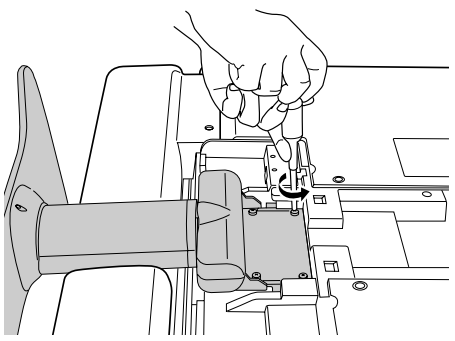
- **When using the TV with the supplied stand attached, do not remove the speaker. Doing so may disturb the balance leading to product damage or personal injury.**

Before attaching/removing speaker

- Before performing work make sure to turn off the System.
- Before performing work spread cushioning over the base area to lay the Display on. This will prevent it from being damaged.

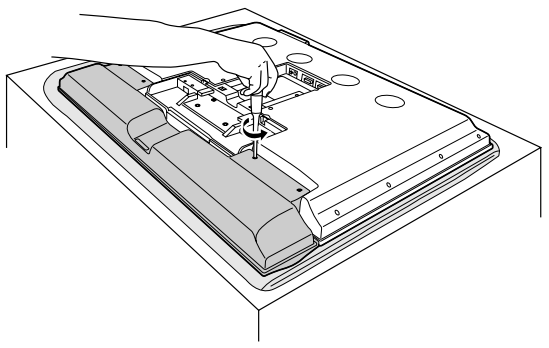
The graphics in the explanation below use the LC-37AA1H.

1



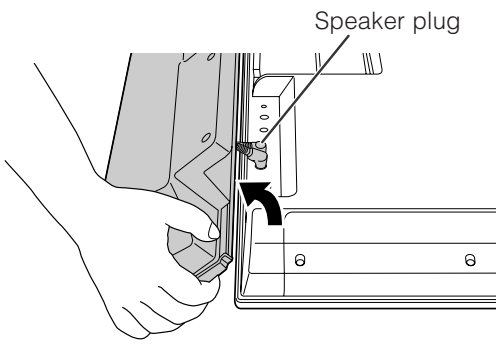
Unfasten the screws used to secure the stand in place, and then detach the stand from the Display.
(Hold the stand so it will not drop the stand from the edge of the base area.)

2



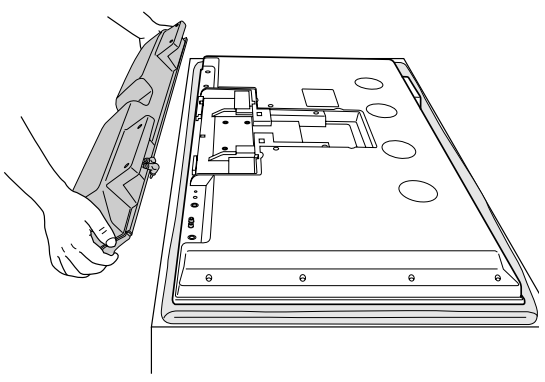
Unfasten the screws used to secure the speaker in place.

3



Take hold of the speaker and slowly slide it sideways.
(The speaker plugs are still inserted, so make sure not to pull the speaker too far.)

4



Remove the speaker plugs from the terminal on the Display.
(Do not remove the plug by pulling the cord.)
Now the speaker can be removing from the Display.

CAUTION

- The speaker terminals on the Display are only for the attached speaker. Do not connect any third party plug or speaker to the terminal.
- Insert the speaker plug completely into the terminal.

NOTE

- To attach the speaker and stand, perform the above steps in reverse order.

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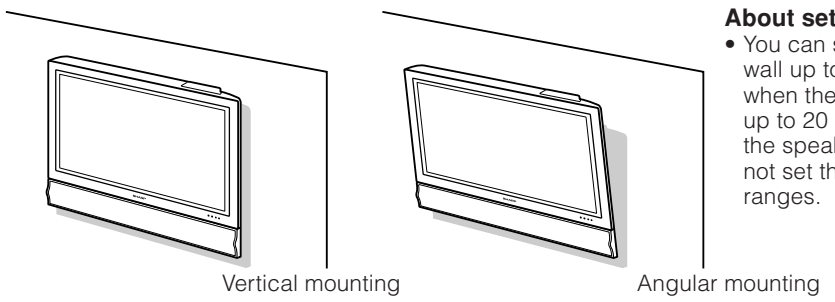
Setting the Display on the wall

Using an optional bracket to mount the Display

- You can ask a qualified service personnel about using an optional AN-37AG1 bracket to mount the Display to the wall.
- Carefully read the instructions that come with the bracket before beginning work.

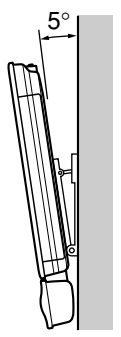
Hanging on the wall

AN-37AG1 wall mount bracket. (See the bracket instructions for details.)



About setting the Display angle

- You can set the Display on the wall up to 5 degrees forward when the speaker is attached and up to 20 degrees forward when the speaker is not attached. Do not set the angle outside those ranges.



CAUTION

- Installing the LCD Colour TV requires special skill that should only be performed by qualified service personnel. Customers should not attempt to do the work themselves. SHARP bears no responsibility for improper mounting or mounting that results in accident or injury.

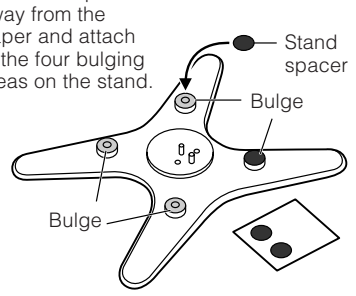
Setting the AVC System with the stand

How to install the AVC System vertically using the stand unit.

- Use the supplied stand unit for installing the AVC System vertically in an upright position.

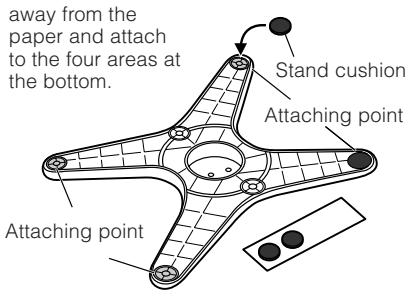
1 Stick each spacer to the stand as shown.

Peel each spacer away from the paper and attach to the four bulging areas on the stand.



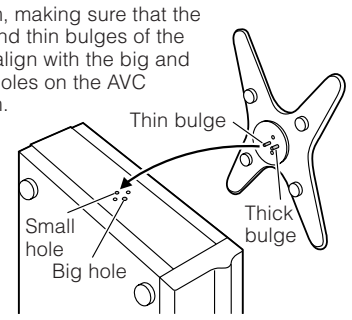
2 Attach each cushion to the stand as shown.

Peel each cushion away from the paper and attach to the four areas at the bottom.

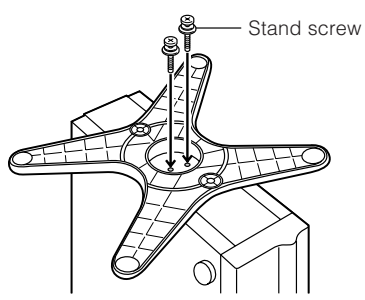


3 Fit the stand to the AVC System.

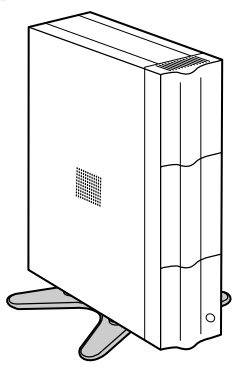
Insert the stand into the AVC System, making sure that the thick and thin bulges of the stand align with the big and small holes on the AVC System.



4 Attach the stand using the stand screws as shown.



The AVC System installed vertically with the stand.



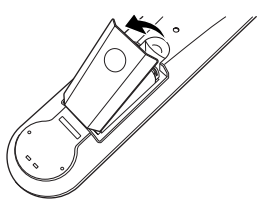
NOTE

- When mounting the AVC System vertically, always use the supplied stand. Be careful not to block vent holes when standing up directly on the floor or a flat surface as this can result in equipment failure.

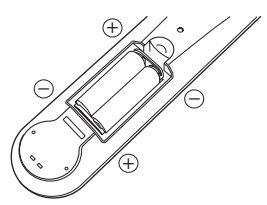
Inserting the batteries

Before using the System for the first time, insert two “AA” size batteries (supplied). When the batteries become depleted and the remote control fails to operate, replace the batteries with new “AA” size batteries.

1 Open the battery cover.

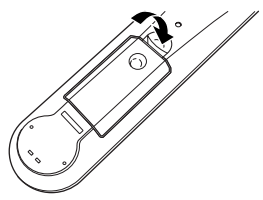


2 Insert two supplied “AA” size batteries.



- Place batteries with their terminals corresponding to the (+) and (–) indications in the battery compartment.

3 Close the battery cover.



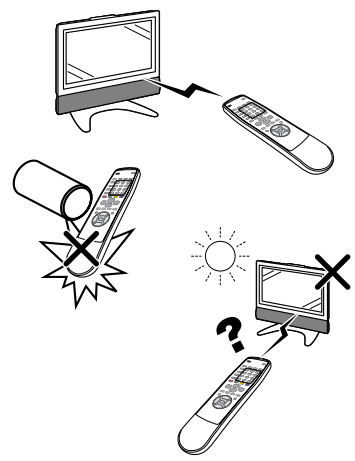
CAUTION

Improper use of batteries can result in chemical leakage or explosion. Be sure to follow the instructions below.

- Place the batteries with their terminals corresponding to the (+) and (–) indications.
- Do not mix batteries of different types. Different types of batteries have different characteristics.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries or cause chemical leakage in old batteries.
- Remove batteries as soon as they have worn out. Chemicals that leak from batteries can cause a rash. If you find any chemical leakage, wipe thoroughly with a cloth.
- The batteries supplied with this product may have a shorter life expectancy due to storage conditions.
- If you will not be using the remote control unit for an extended period of time, remove the batteries from it.

Using the remote control unit

Use the remote control unit by pointing it towards the remote sensor window. Objects between the remote control unit and sensor window may prevent proper operation.



Cautions regarding remote control unit

- Do not expose the remote control unit to shock.
  In addition, do not expose the remote control unit to liquids, and do not place in an area with high humidity.
- Do not install or place the remote control unit under direct sunlight.
  The heat may cause deformation of the unit.
- The remote control unit may not work properly if the remote sensor window of the Display is under direct sunlight or strong lighting. In such case, change the angle of the lighting or Display, or operate the remote control unit closer to the remote sensor window.

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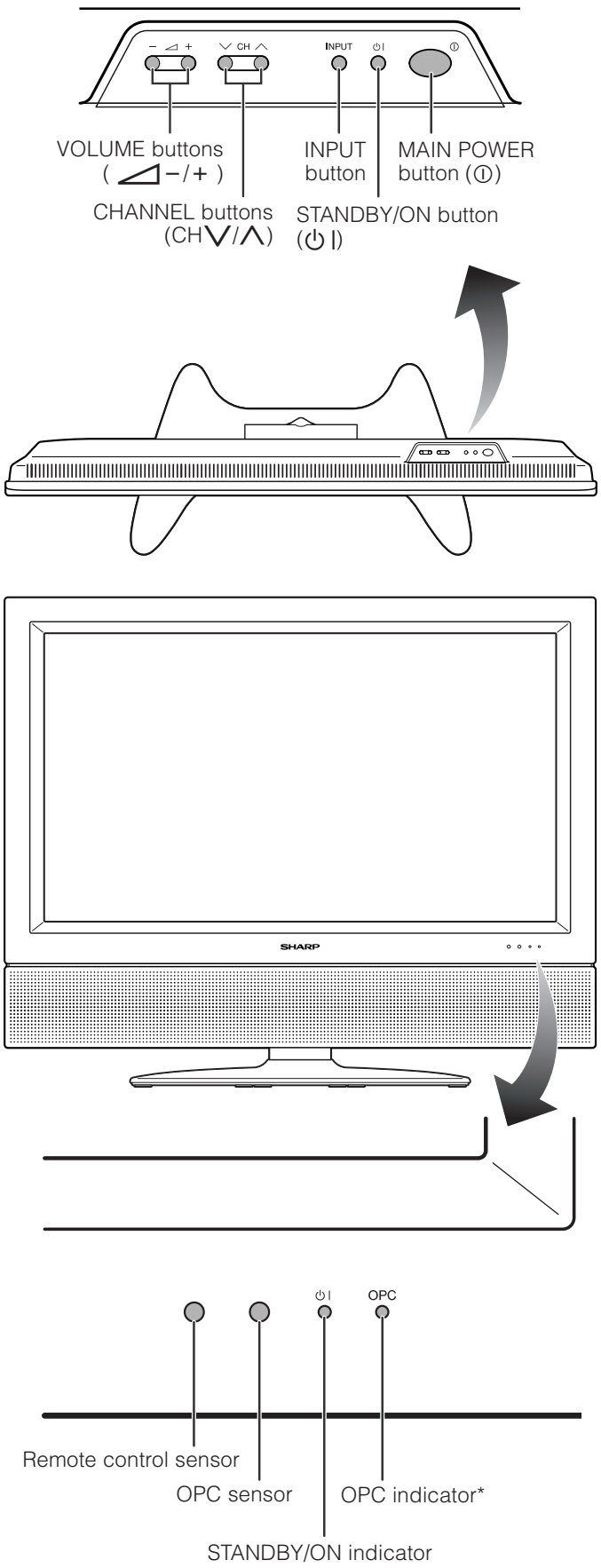
Part names

Display

■ LC-37AA1H



*OPC: Optical Picture Control
(See pages 41 and 43.)

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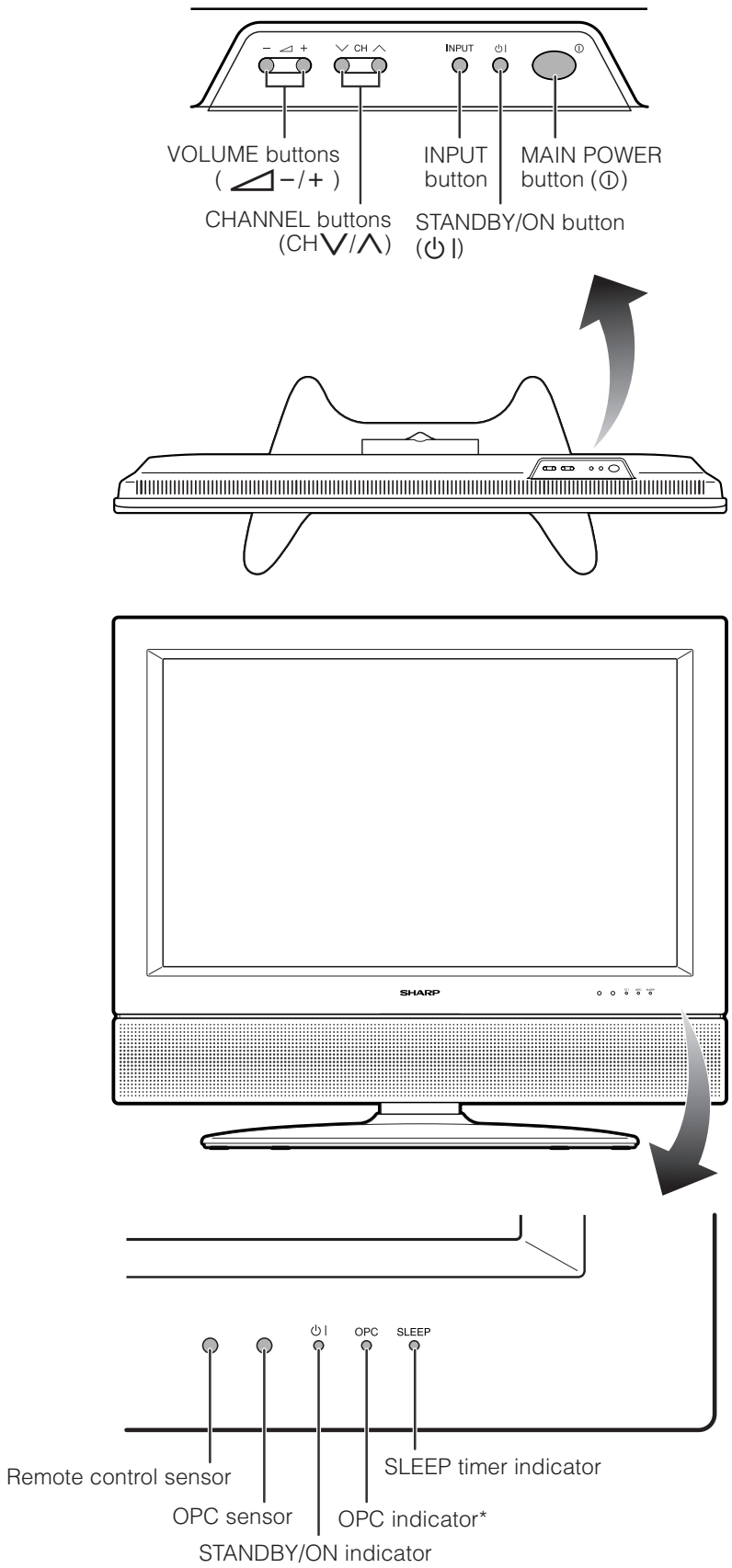
Display

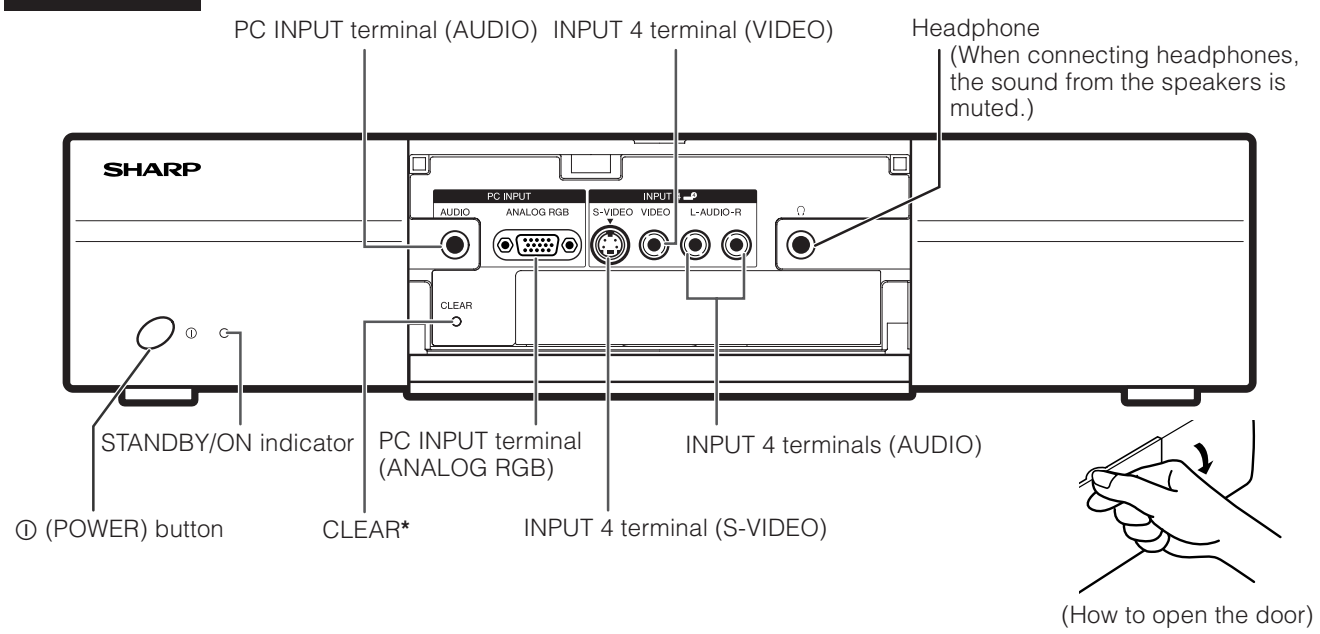
LC-30AA1H



*OPC: Optical Picture Control
(See pages 41 and 43.)

AVC System

Front view



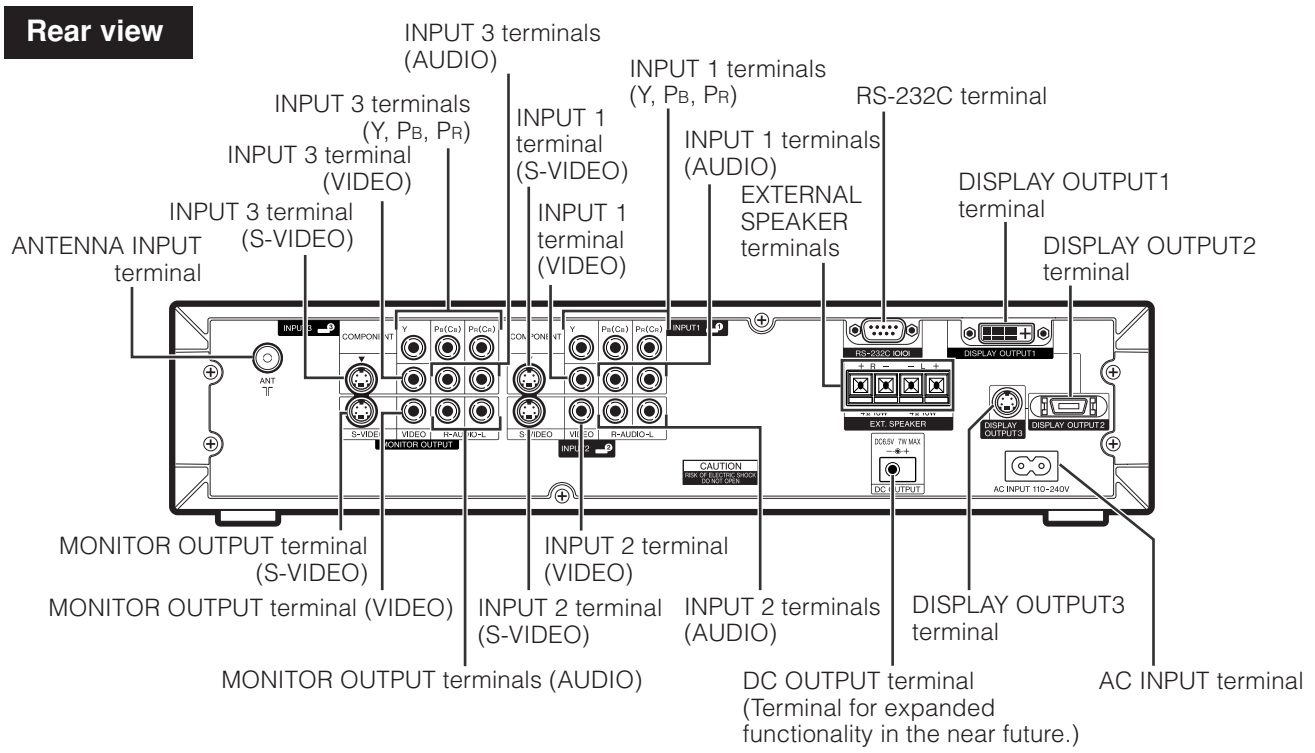
* If the AVC System is switched on but it does not appear to be operating correctly, it may need resetting. In this case, press **CLEAR**, shown in the diagram, lightly with the end of a ballpoint pen or other pointed object. This will reset the System as shown below.

- AV MODE resets to USER.
- TV channel resets to channel 1.
- Dual screen resets to normal.
- Audio setting initialises.
- Dolby Virtual resets to OFF.
- Image position is initialised.

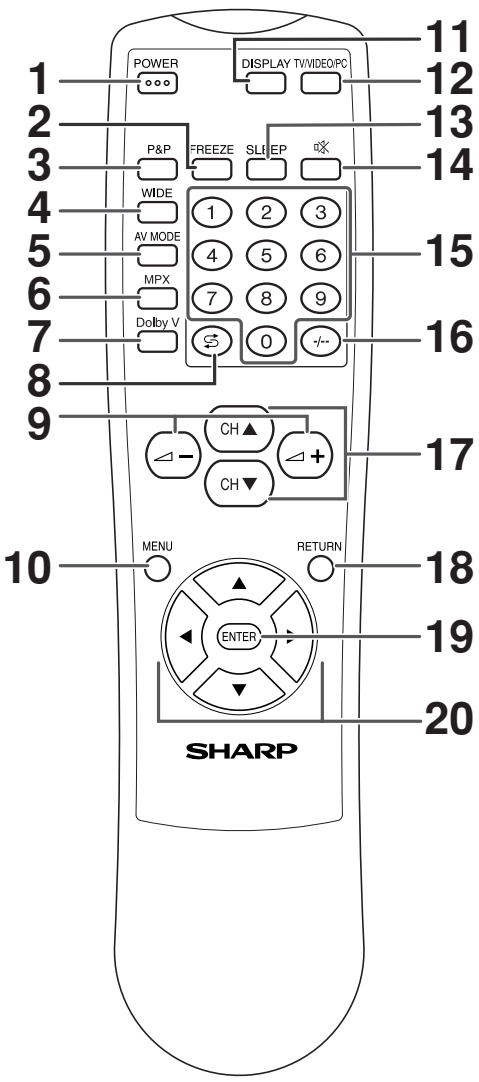
NOTE

- Pressing **CLEAR** will not work if the System is in standby mode (indicator lights red).
- Pressing **CLEAR** will not delete channel preset or password. See page 64 for resetting the password when you know it. See page 75 for initialising to the factory preset values when you forget your password.

Rear view


INPUT 3 terminals (AUDIO)
INPUT 1 terminals (Y, PB, PR)
RS-232C terminal
INPUT 3 terminals (Y, PB, PR)
INPUT 1 terminal (S-VIDEO)
INPUT 1 terminals (AUDIO)
DISPLAY OUTPUT1 terminal
INPUT 3 terminal (VIDEO)
EXTERNAL SPEAKER terminals
INPUT 3 terminal (S-VIDEO)
INPUT 1 terminal (VIDEO)
ANTENNA INPUT terminal
DISPLAY OUTPUT2 terminal
MONITOR OUTPUT terminal (S-VIDEO)
INPUT 2 terminal (VIDEO)
MONITOR OUTPUT terminal (VIDEO)
INPUT 2 terminal (S-VIDEO)
INPUT 2 terminals (AUDIO)
DISPLAY OUTPUT3 terminal
MONITOR OUTPUT terminals (AUDIO)
DC OUTPUT terminal (Terminal for expanded functionality in the near future.)
AC INPUT terminal

Remote control unit



1 **POWER**
To switch the power on and off. (See page 19.)

2 **FREEZE**
Change the still image mode. (See page 66.)

3 **P&P**
Set the dual picture mode. Press P&P again to return to normal view. (See page 65.)

4 **WIDE**
Change the wide image mode. (See pages 57 and 58.)

5 **AV MODE**
Select a video setting. AV MODE (USER, STANDARD, DYNAMIC, MOVIE, GAME) PC MODE (USER, STANDARD) (See page 56.)

6 **MPX**
Select the sound multiplex mode. (See page 23.)

7 **Dolby V***
Select Virtual Dolby Surround settings. (See page 22.)

8 **(FLASHBACK)**
Press to return to the previous channel in normal viewing mode. (See page 20.)

9 **– / + (VOLUME)**
Set the volume. (See page 21.)

10 **MENU**
Display the menu screen.

11 **DISPLAY**
Display the channel information.

12 **TV/VIDEO/PC**
Select an input source. (TV, INPUT 1, INPUT 2, INPUT 3, INPUT 4, PC) (See page 45–48 and 54.)

13 **SLEEP**
Set the SLEEP TIMER. (See page 62.)

14 **(MUTE)**
Mute the sound. (See page 21.)

15 **0 – 9**
Set the channel.

16 **-/-- (Digit for channel select)**
Change the digits of the selected TV channel.

17 **CH▲/CH▼**
Select the channel.

18 **RETURN**
Return to the previous menu screen.

19 **ENTER**
Execute a command.
Return to the initial image position after moving with ▲/▼/◀/▶.

20 **▲/▼/◀/▶ (Cursor)**
Select a desired item on the setting screen.
Move the picture on the screen.

NOTE

- When using the remote control unit, point it at the Display.
- Manufactured under license from BBE Sound, Inc.
  Licensed by BBE Sound, Inc. under USP4638258, 5510752 and 5736897. BBE and BBE symbol are registered trademarks of BBE Sound, Inc.

* Manufactured under license from Dolby Laboratories. “Dolby”, “Pro Logic” and the double-D symbol are trademarks of Dolby Laboratories.

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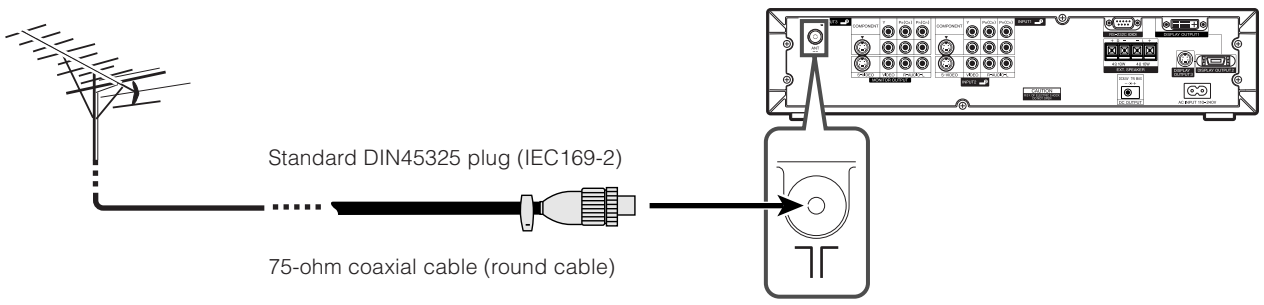
Watching TV

Simple operations for watching a TV programme

Basic connection

Connecting to an antenna

To enjoy a clearer picture, use an outdoor antenna. The following is a brief explanation of the types of connections that are used for coaxial cable.

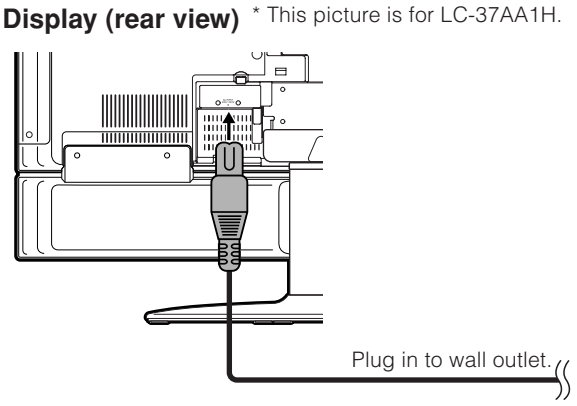


Antenna cable

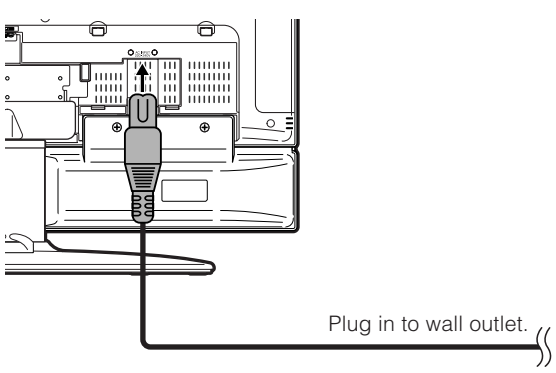
If your outdoor antenna uses a 75-ohm coaxial cable with a standard DIN45325 plug (IEC 169-2), plug it into the ANTENNA INPUT terminal at the rear of the AVC System.

Connecting to the power outlet

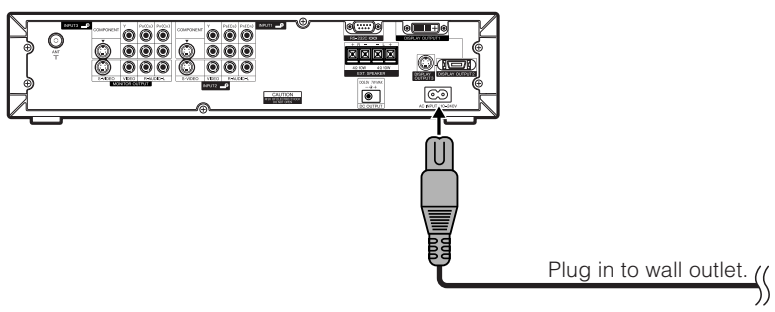
Display (rear view) * This picture is for LC-37AA1H.



Display (rear view) * This picture is for LC-30AA1H.



AVC System (rear view)



NOTE

- Always turn off the main power of Display and AVC System when connecting the AC cords.
- Disconnect the AC cords from the AC outlet, Display and AVC System if the System will not be used for a long period of time.

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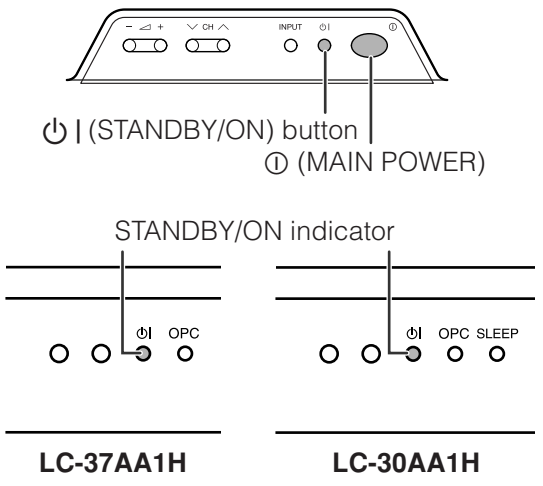
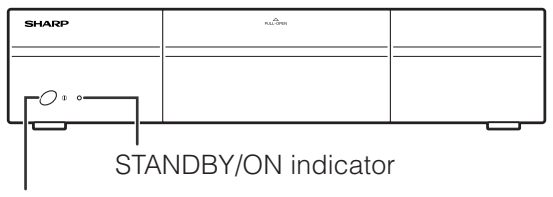
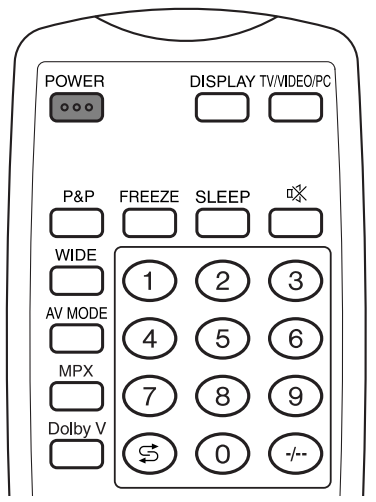
Display



LC-37AA1H **LC-30AA1H**

AVC System





Turning on the power

1 Press ⓘ (MAIN POWER) on the Display.
- The STANDBY/ON indicator on the Display flashes red.

2 Press ⓘ (POWER) on the AVC System.
- The System turns the power on.
- The STANDBY/ON indicator on the Display lights up green and the one on the AVC System lights up green.
- If the STANDBY/ON indicators still light up red, press **POWER** on the remote control unit or ⏻ | (STANDBY/ON) button on the Display to turn the System on.

When turning the AVC System on first

1 Press ⓘ (POWER) on the AVC System.
- The STANDBY/ON indicator on the AVC System lights up red.

2 Press ⓘ (MAIN POWER) on the Display.
- The System turns the power on.
- The STANDBY/ON indicator on the Display lights up green and the one on the AVC System lights up green.
- If the STANDBY/ON indicators still light up red, press **POWER** on the remote control unit or ⏻ | (STANDBY/ON) button on the Display to turn the System on.

Turning off the power

1 Press **POWER** on the remote control unit or ⏻ | (STANDBY/ON) button on the Display.
- The System enters standby mode and the image on the screen disappears.
- Both STANDBY/ON indicators change from green to red.

2 Press ⓘ (POWER) on the AVC System.
- The STANDBY/ON indicator on the AVC System turns off and the one on the Display flashes red.

3 Press ⓘ (MAIN POWER) on the Display.
- The STANDBY/ON indicator on the Display gradually turns off.

NOTE

- If you are not going to use this System for a long period of time, be sure to remove the AC cords from the power outlet.
- Weak electric power is still consumed even when both ⓘ (MAIN POWER) and ⓘ (POWER) are turned off.

Display status indicator

Off	Power off
Flashing red	AVC System does not turn on or its AC cord is disconnected.
Red	The System is in standby mode.
Green	The System is on.

AVC System status indicator

Off	Power off
Red	Only the AVC System is in standby mode or the System is in standby mode.
Green	The System is on.

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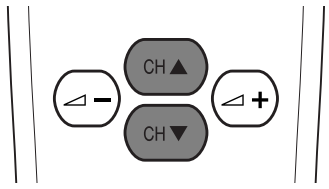
Simple button operations for changing channels

You can change channels in several ways.

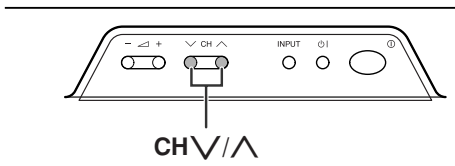
Using CH▲/▼on the remote control unit

- Press **CH▲** to increase channel number.
- Press **CH▼** to decrease channel number.



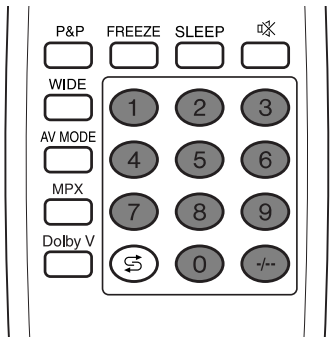
NOTE

- **CH⋁/⋀** on the Display operates the same as **CH▼/▲** on the remote control unit.



Using 0 – 9 on the remote control unit

Select the channels directly by pressing buttons **0** to **9**.



EXAMPLE

To select a 1-digit channel (e.g. channel 2):

- Press **2**. If "2" is indicated and the picture does not change, press **-/--** to switch over to the 1-digit select mode and press **2** again.

To select a 2-digit channel (e.g. channel 12):

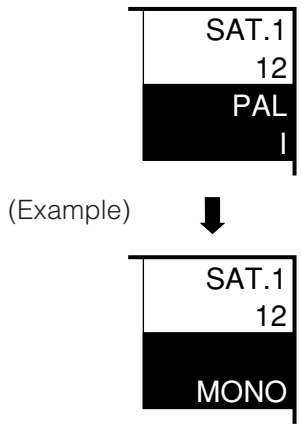
- Press **-/--** to set the 2-digit select mode. Press **1**, followed by **2**.

NOTE

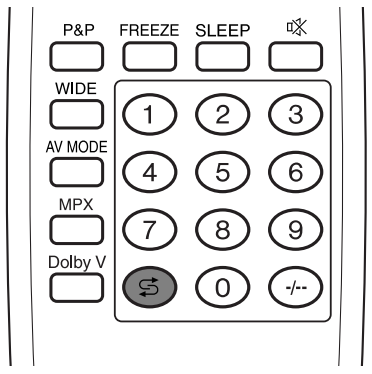
- Complete this procedure within 3 seconds, otherwise the selection will not be made on the 2-digit channel mode.

Channel display

Channel display changes approximately after 3 seconds as shown below.



Using Flashback (⮌) on the remote control unit

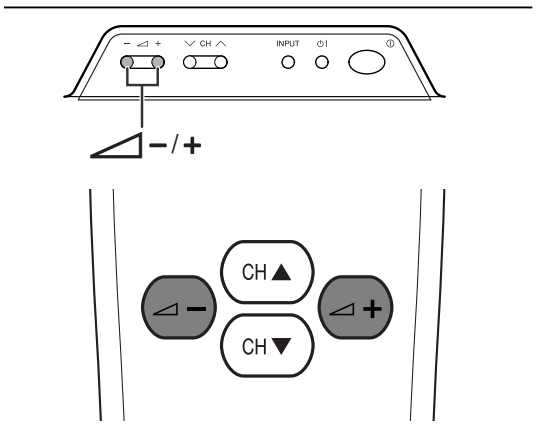


Press ⮌ to switch the currently tuned channel to the previously tuned channel.
Press ⮌ again to switch back to the currently tuned channel.

Simple button operation for changing volume/sound

Changing the volume

You can change the volume on the Display or on the remote control unit.



- To increase the volume, press + .
- To decrease the volume, press − .

NOTE

- "TV", "INPUT1", "INPUT2", "INPUT3", "INPUT4" and "PC" modes can each store volume adjustment values separately.

When "Audio Out" is set to "Variable", the indicator on the screen changes as shown below.

Audio status

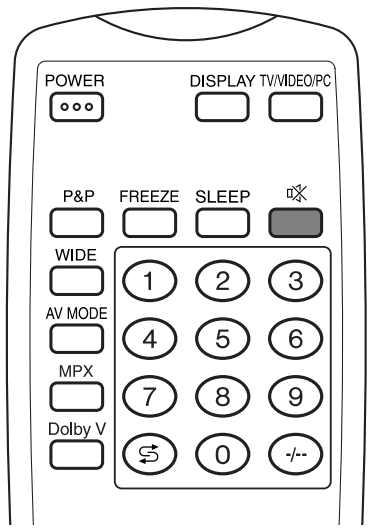
Output device	Audio out	
	Fixed	Variable
Speaker	Variable sound	Mute
MONITOR OUTPUT	Constant as specified	Variable sound

NOTE

- See page 62 for details on the audio out function.

Using 🔇 on the remote control unit

🔇 mutes the current sound output.

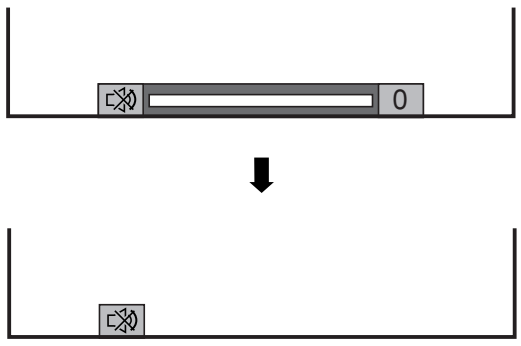


1

Press 🔇.

- "🔇" has been displayed on the screen for 30 minutes, and the sound is silenced.

Mute



NOTE

- Within 30 minutes of pressing 🔇, mute can be cancelled by using one of the two methods below.
  - Pressing − / + , **MPX**, **CH▲/CH▼**, **0** – **9**, **TV/VIDEO/PC** or ⇆ can also cancel the mute.
  - Changing channels can also cancel the mute.
- **Mute will be cancelled after 30 minutes have elapsed. However, the System will not suddenly output a loud sound as the volume level is set to 0 automatically.**

2

Within 30 minutes, Press 🔇 again to cancel the mute.

- Before 30 minutes, the volume level returns to the previous setting.
- After 30 minutes, increase the volume level by pressing + .

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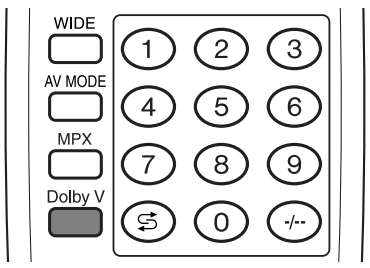
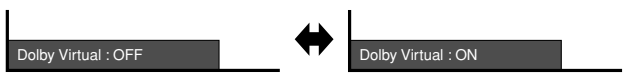
Using Dolby V on the remote control unit



Dolby V produces Dolby virtual effect from the speakers.
Each time you press **Dolby V**, the mode changes between ON and OFF.

Dolby Virtual sound options

- ON: Makes it possible to enjoy natural, realistic surround sound.
- OFF: Outputs the normal sound.



NOTE

- You can have the same settings by choosing “Dolby Virtual” on the menu items. (See page 40.)

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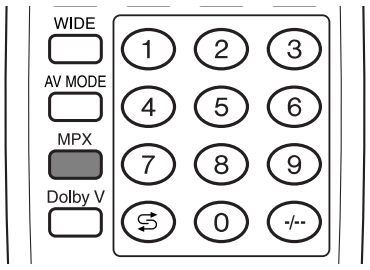
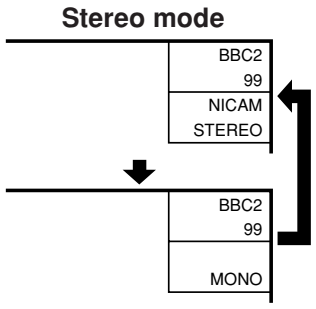
Using MPX on the remote control unit

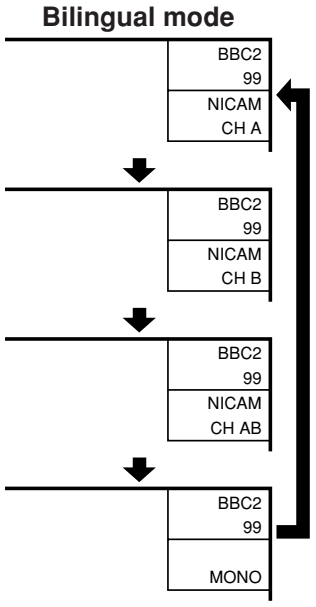


In the NICAM TV broadcasts

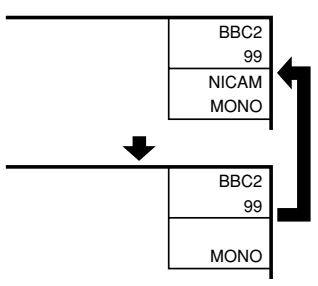
When receiving a stereo signal
Each time you press **MPX**, the mode switches between NICAM STEREO and MONO.



When receiving a bilingual signal
Each time you press **MPX**, the mode switches among NICAM CH A, NICAM CH B, NICAM CH AB and MONO.

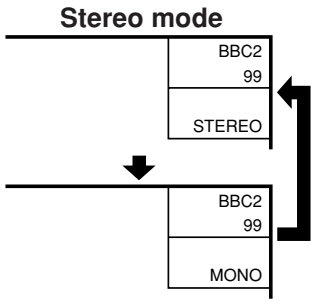


When receiving a monaural signal
Each time you press **MPX**, the mode switches between NICAM MONO and MONO.

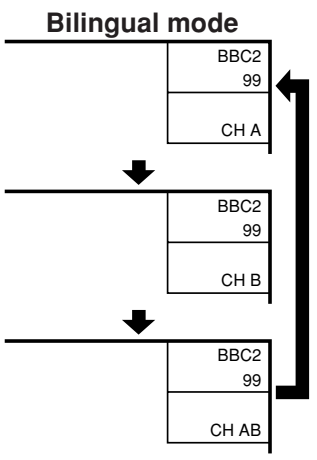


In the TV mode of A2 TV broadcasts

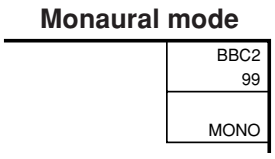
When receiving a stereo signal
Each time you press **MPX**, the mode switches between STEREO and MONO.



When receiving a bilingual signal
Each time you press **MPX**, the mode switches among CH A, CH B and CH AB.



When receiving a monaural signal
When you press **MPX**, “MONO” displays.



NOTE

- When no signal is input, the sound mode will display “MONO”.
- “BBC2” and “99” are tentative network name and channel.

Basic adjustment settings

AV input mode menu items

List of AV menu items to help you with operations

Picture

Contrast ..... Page 35
Brightness ..... Page 35
Colour ..... Page 35
Tint ..... Page 35
Sharpness ..... Page 35
Advanced
C.M.S. ..... Page 36
Colour Temp ..... Page 37
Black ..... Page 37
Monochrome ..... Page 38
Film Mode ..... Page 38
I/P Setting ..... Page 39
DNR ..... Page 39

Audio

Treble ..... Page 40
Bass ..... Page 40
Balance ..... Page 40
Dolby Virtual ..... Page 40
Speaker ..... Page 50

Power Control

Power Save ..... Page 41
No Signal Off ..... Page 42
No Operation Off ..... Page 42

Setup

Auto Installation ..... Pages 25-26
Programme Setup ..... Pages 27-32
Child Lock ..... Page 64
Position ..... Page 51
Full Mode* ..... Page 60
Rotate ..... Page 61
Language ..... Page 34

Option

Input Select ..... Page 54
Input Label ..... Page 55
Audio Out ..... Page 62
Cool Climate ..... Page 63
Colour System ..... Page 56
Booster ..... Page 33

PC input mode menu items

List of PC menu items to help you with operations

Picture

Contrast ..... Page 35
Brightness ..... Page 35
Red ..... Page 35
Green ..... Page 35
Blue ..... Page 35
C.M.S. ..... Page 36

Audio

Treble ..... Page 40
Bass ..... Page 40
Balance ..... Page 40
Dolby Virtual ..... Page 40
Speaker ..... Page 50

Power Control

Power Save ..... Page 43
Power Management ..... Page 43

Setup

Input Signal ..... Page 59
Auto Sync. ..... Page 53
Fine Sync. ..... Page 53
Rotate ..... Page 61
Language ..... Page 34

Option

Audio Out ..... Page 62
Cool Climate ..... Page 63

* Full Mode is only displayed for LC-30AA1H.

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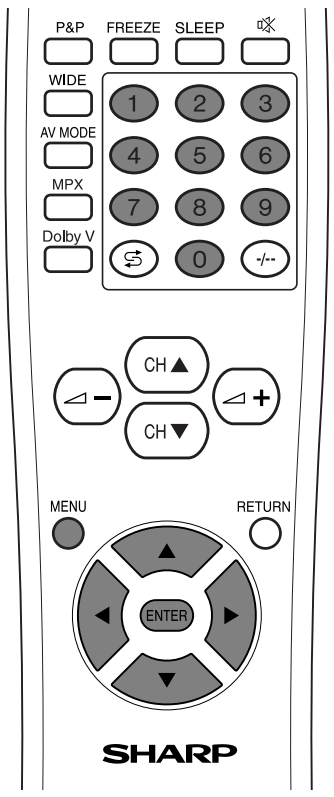
Auto installation

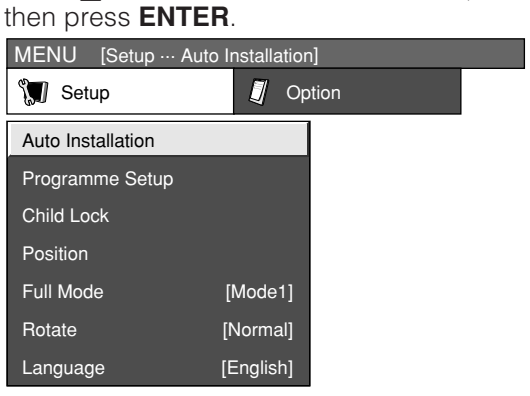
You can run auto installation, even after setting up the preset channels.



1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Setup”.

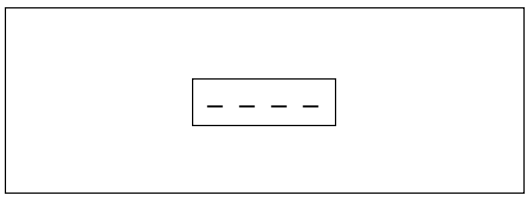
3 Press ▲/▼ to select “Auto Installation”, and then press **ENTER**.



- Full Mode is only displayed for LC-30AA1H.

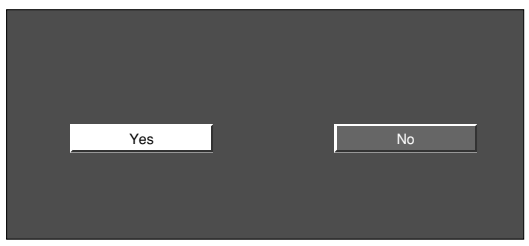
4 If you already set the password for child lock, enter it here. If not, enter the factory preset password “1234”.

- See page 64 for setting password.



Enter your 4-digit password with **0** - **9** on the remote control unit.

5 Press ◀/▶ to select “Yes”, and then press **ENTER**.



6 Press ▲/▼ to select the desired language listed on the screen, and then press **ENTER**. After this setting, auto search starts with the following order.

① Automatic channel searching
② Automatic channel labelling
③ Automatic channel sorting

You do not need to do anything during the auto search. (Go to the next page.)

NOTE

- The illustrations and on-screen displays in this manual are for explanation purposes and may vary slightly from the actual operations.

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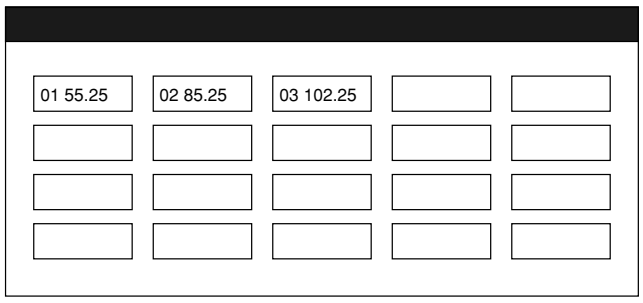
Basic adjustment settings

Automatic channel searching

Channel auto search finds all channels viewable in your area.



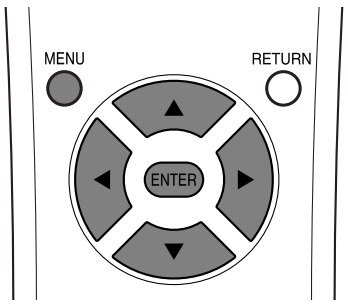
NOTE

- If no channel is found, “No programme found.” displays. And the auto installation finishes.

LC-37AA1H(E)-c 26 03.11.10, 9:40 AM

Programme setup

You can run the auto installation procedure again at any time, by accessing the Setup menu, then Programme Setup. Channels can be tuned automatically or manually.



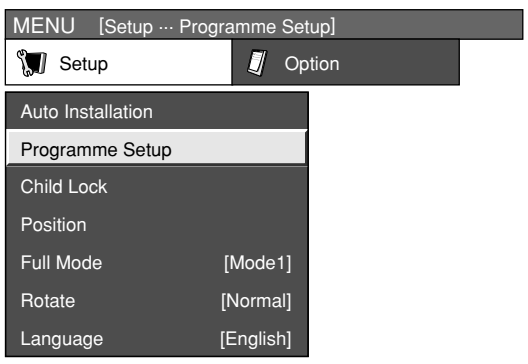
Auto search

You can also automatically search TV channels by performing the procedure below. This is the same function as from “Automatic channel searching” to “Automatic channel sorting” in auto installation on page 26.

1 Press **MENU** and the MENU screen displays.

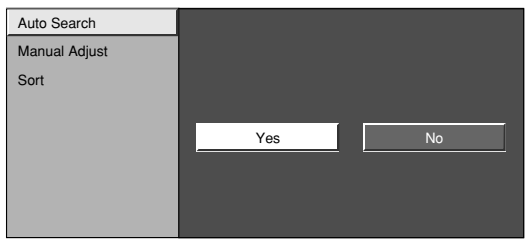
2 Press ◀/▶ to select “Setup”.

3 Press ▲/▼ to select “Programme Setup”, and then press **ENTER**.
If you already set the password for child lock, enter it here. If not, enter the factory preset password “1234”.
• See page 64 for setting password.



• Full Mode is only displayed for LC-30AA1H.

4 Press ▲/▼ to select “Auto Search”, and then press **ENTER**.



5 Press ◀/▶ to select “Yes”, and then press **ENTER**.

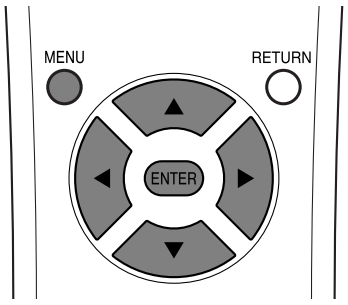
• Auto search starts with the following order.
① Automatic channel searching
② Automatic channel labelling
③ Automatic channel sorting

NOTE

• See page 26 for details.

Manual setting for each channel

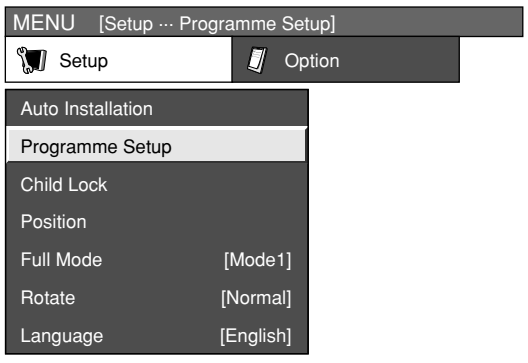
You can set some channel items manually. They are Search, Fine (TV frequency), Colour sys., Sound sys., Label (Network name), Skip and Lock (Child Lock).



1 Press **MENU** and the MENU screen displays.

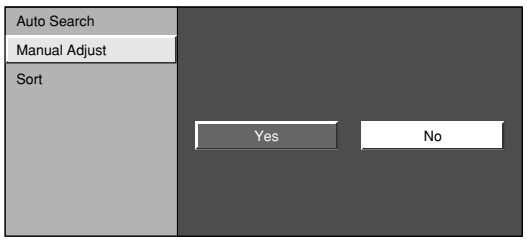
2 Press ◀/▶ to select “Setup”.

3 Press ▲/▼ to select “Programme Setup”, and then press **ENTER**.
If you already set the password for child lock, enter it here. If not, enter the factory preset password “1234”.
• See page 64 for setting password.



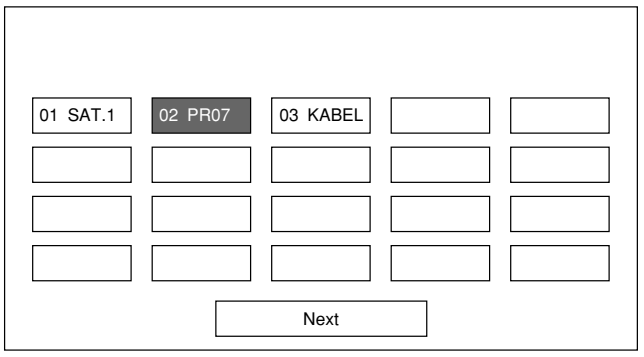
• Full Mode is only displayed for LC-30AA1H.

4 Press ▲/▼ to select “Manual Adjust”, and then press **ENTER**.



5 Press ◀/▶ to select “Yes”, and then press **ENTER**.

Programme Setup “Manual” menu



You can select one of the following settings.

① Search (See page 29.)
② Fine (See page 29.)
③ Colour system (See page 30.)
④ Sound system (See page 30.)
⑤ Label (See page 30.)
⑥ Skip (See page 31.)
⑦ Lock (See page 31.)

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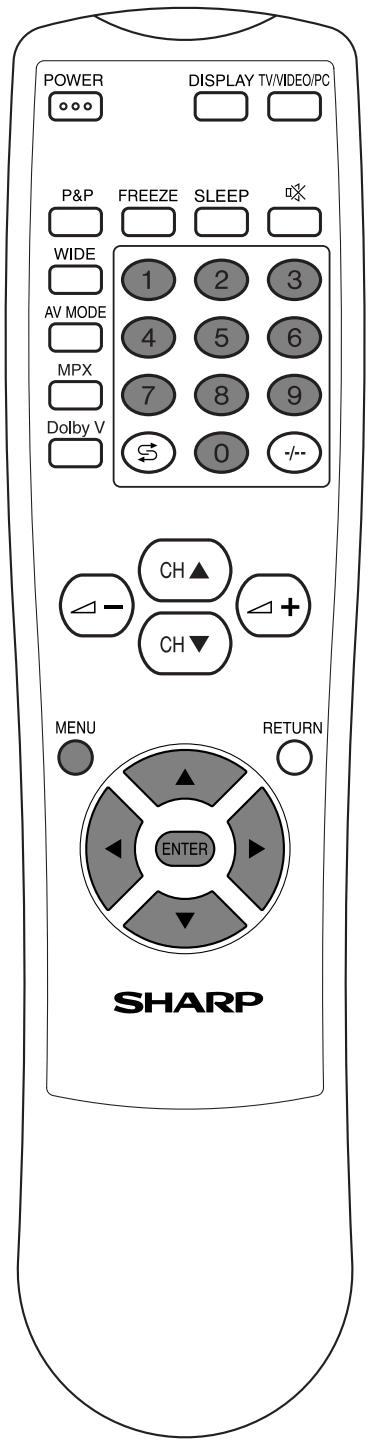
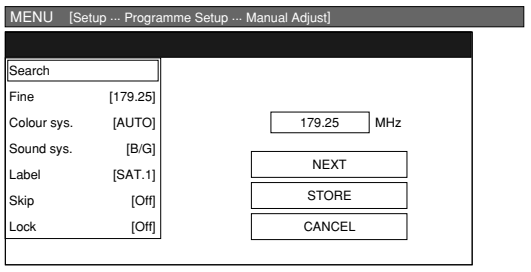


Manual setting for each channel (continued)

Search tuning

1 Press ▲/▼/◀/▶ to select the channel you want to edit, and then press **ENTER**.
- The selected channel information displays.

2 Press ▲/▼ to select “Search”, and then press **ENTER**.



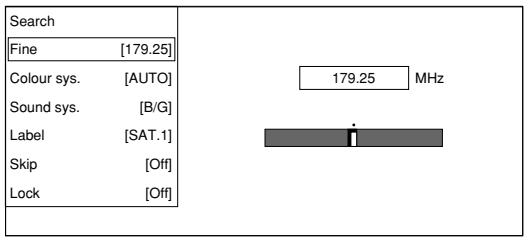
3 Press ▲/▼ to select item and press **ENTER**.
- **NEXT**: Search the next channel.
- **STORE**: Memorise the current display channel.
- **CANCEL**: Returns to the previous screen. (The search result is not stored.)

Fine tuning

1 Press ▲/▼/◀/▶ to select the channel you want to edit, and then press **ENTER**.
- The selected channel information displays.

2 Press ▲/▼ to select “Fine”, and then press **ENTER**.

3 Press ◀/▶ to adjust the frequency, and then press **ENTER**.
- Adjust while checking the background picture as a reference.

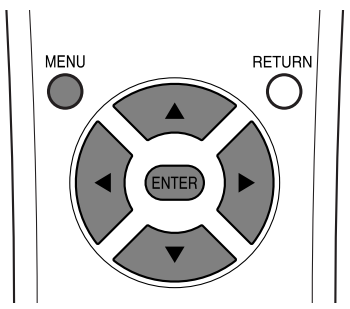


- Instead of the above, you can also set by directly entering the frequency number of the channel with **0** – **9**.

EXAMPLE
- 179.25 MHz: Press **1** → **7** → **9** → **2** → **5** → **ENTER**.
- 49.25 MHz: Press **4** → **9** → **2** → **5** → **ENTER**.

Manual setting for each channel (continued)

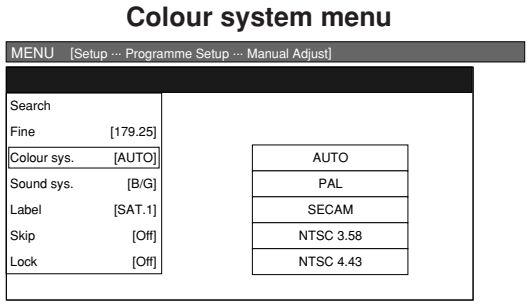
Colour system



1 Press ▲/▼/◀/▶ to select the channel you want to edit, and then press **ENTER**.
- The selected channel information displays.

2 Press ▲/▼ to select “Colour sys.”, and then press **ENTER**.
- Receivable colour systems are listed.

Colour system menu



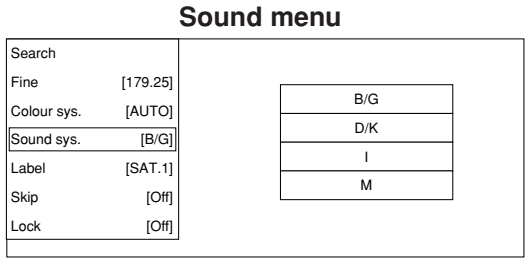
3 Press ▲/▼ to select the optimum colour system, and then press **ENTER**.

Sound system (Broadcasting system)

1 Press ▲/▼/◀/▶ to select the channel you want to edit, and then press **ENTER**.
- The selected channel information displays.

2 Press ▲/▼ to select “Sound sys.”, and then press **ENTER**.
- Receivable sound systems (Broadcasting systems) are listed.

Sound menu



3 Press ▲/▼/◀/▶ to select the optimum sound system, and then press **ENTER**.

NOTE
- If you adjust this setting, please check the colour system information. (See left column.)

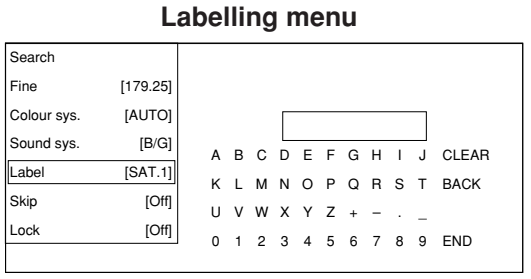
Labelling channels

When a TV channel sends its Network Name, the auto installation detects the information and assigns a name to it. However, you can change individual channel names.

1 Press ▲/▼/◀/▶ to select the channel you want to edit, and then press **ENTER**.
- The selected channel information displays.

2 Press ▲/▼ to select “Label”, and then press **ENTER**.
- Alphabets and numbers are listed.

Labelling menu

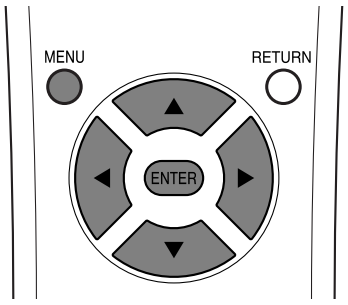

Search
Fine [179.25]
Colour sys. [AUTO]
Sound sys. [B/G]
Label [SAT.1]
Skip [Off]
Lock [Off]
A B C D E F G H I J CLEAR
K L M N O P Q R S T BACK
U V W X Y Z + – . _
0 1 2 3 4 5 6 7 8 9 END

3 Press ▲/▼/◀/▶ to select each character of the new name for the channel, and then press **ENTER**.

4 Repeat the above until the name is fully spelt out.
- The name can be 5 characters or less.

Manual setting for each channel (continued)

Skipping channels

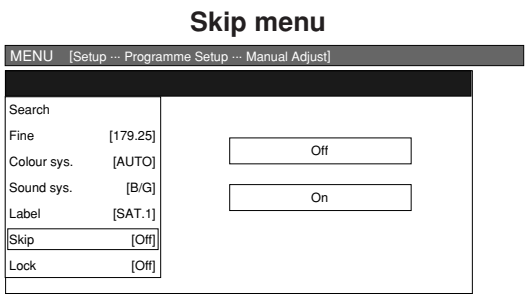


Channels with “Skip” set to “On” are passed over when using **CH▲/CH▼** even if selected while watching the image from the TV.

1 Press ▲/▼/◀/▶ to select the channel you want to edit, and then press **ENTER**.
- The selected channel information displays.

2 Press ▲/▼ to select “Skip”, and then press **ENTER**.
- Skip menu displays.

Skip menu



3 Press ▲/▼ to set “Skip” to “On”, and then press **ENTER**.

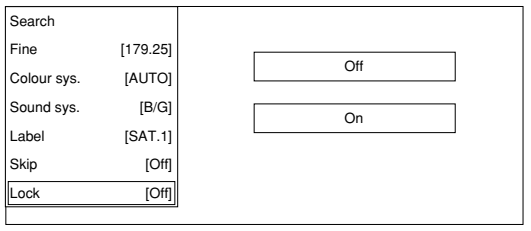
Setting the child lock

You can block the viewing of any channel.

1 Press ▲/▼/◀/▶ to select the channel you want to edit, and then press **ENTER**.
- The selected channel information displays.

2 Press ▲/▼ to select “Lock”, and then press **ENTER**.
- Child lock menu displays.

Lock menu



3 Press ▲/▼ to set “Lock” to “On”, and then press **ENTER**.

NOTE

- Even when this function is switched “On”, it will not work if a password has not been set. See page 64 for details on password setting.
- When “Lock” is set to “On” for a channel, “Child Lock Has Been Activated.” displays , and the image and sound of the channel is blocked.
- When pressing **ENTER** while “Child Lock Has Been Activated.” displays, password input menu will display. Inputting the correct password lifts the child lock temporarily until the power is turned off.

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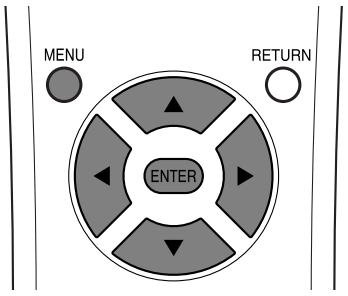
Sort

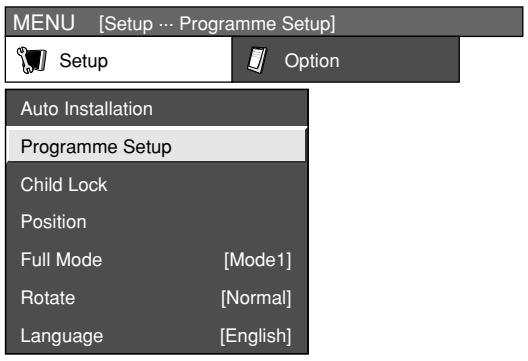
Channel positions can be sorted freely.



1 Press **MENU** and the MENU screen displays.

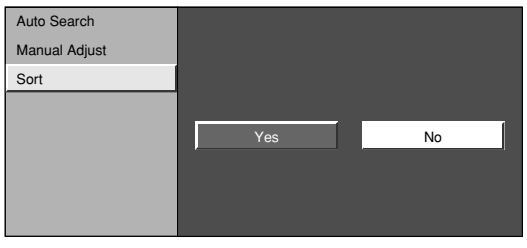
2 Press ◀/▶ to select “Setup”.

3 Press ▲/▼ to select “Programme Setup”, and then press **ENTER**.
If you already set the password for child lock, enter it here. If not, enter the factory preset password “1234”.
• See page 64 for setting password.



• Full Mode is only displayed for LC-30AA1H.

4 Press ▲/▼ to select “Sort”, and then press **ENTER**.
• The channels are listed. Black ones are set “Skip” to “Off” and blue are set “Skip” to “On”.



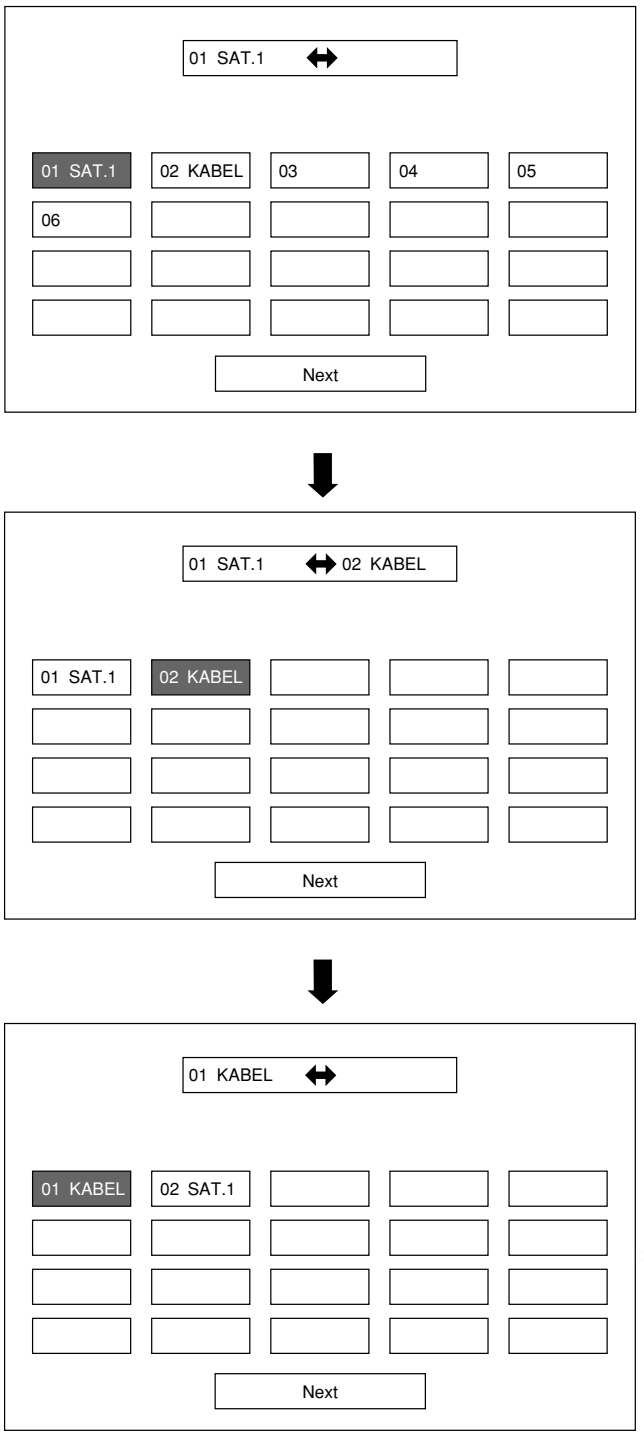
5 Press ◀/▶ to select “Yes”, and then press **ENTER**.

6 Press ▲/▼/◀/▶ to select the channel you want to move, and then press **ENTER**.

7 Move it to the desired position by pressing ▲/▼/◀/▶, and then press **ENTER**.

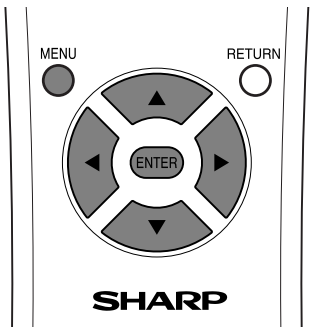
8 Repeat the steps 6 and 7 until all desired channels are sorted.

Sort menus



Booster

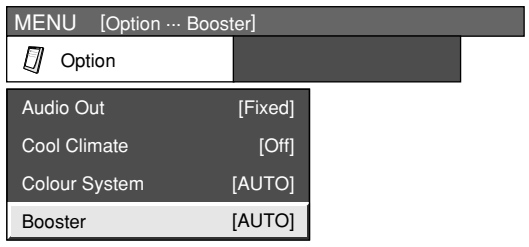
When set to “AUTO”, picture noise is reduced for TV broadcast signal strength from moderate regions. Automatically sets to “Off” for a strong electrolytic signal that has a constant level.



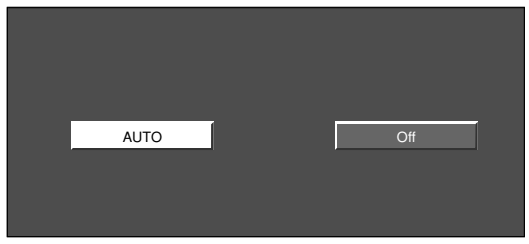
1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Option”.
- Option menu displays.

3 Press ▲/▼ to select “Booster”, and then press **ENTER**.



4 Press ◀/▶ to select “Auto” or “Off”, and then press **ENTER**.



NOTE

- In regions with pronounced changes in TV signal strength or very strong signal strength, the effect is negligible and may produce instability. In such case, turn the setting “Off”. The built-in TV booster cannot handle regions with extremely weak signal strength. After consulting with the store of purchase, please attach an external booster antenna.

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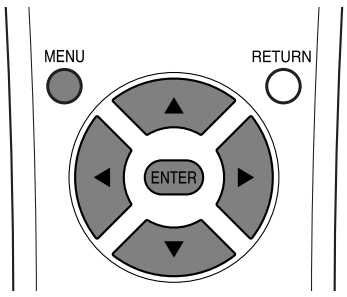
Language setting for on-screen display

You can also select a language from setup menu. Select from among 3 languages: English, Chinese and Arabic.

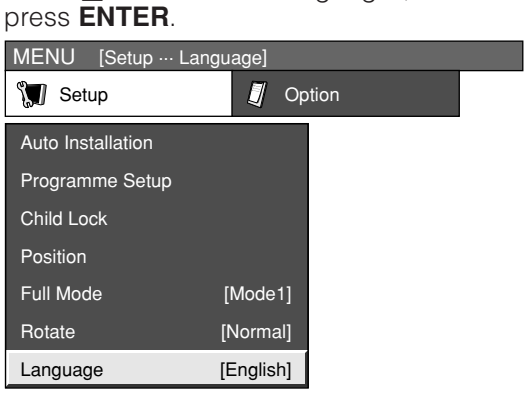


AV Input mode

1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Setup”.

3 Press ▲/▼ to select “Language”, and then press **ENTER**.



• Full Mode is only displayed for LC-30AA1H.

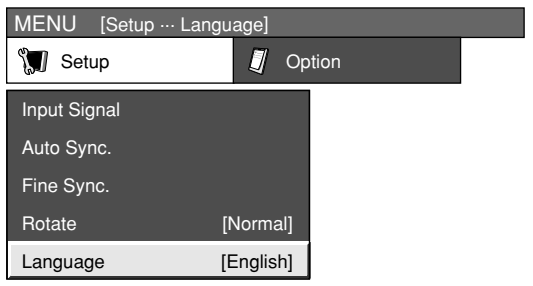
4 Press ▲/▼ to select the desired language listed on the screen, and then press **ENTER**.

PC Input mode

1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Setup”.

3 Press ▲/▼ to select “Language”, and then press **ENTER**.



4 Press ▲/▼ to select the desired language listed on the screen, and then press **ENTER**.

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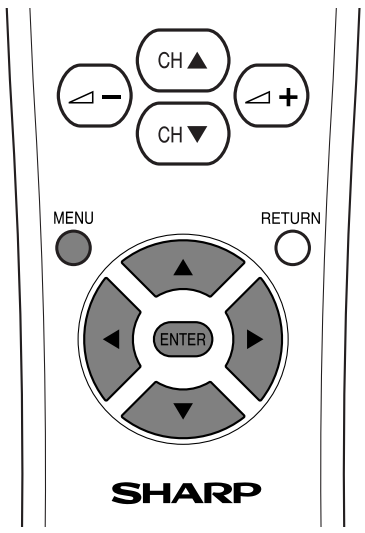
Picture adjustments

Adjust the picture to your preference with the following picture settings.



1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Picture”.
- Picture menu displays.

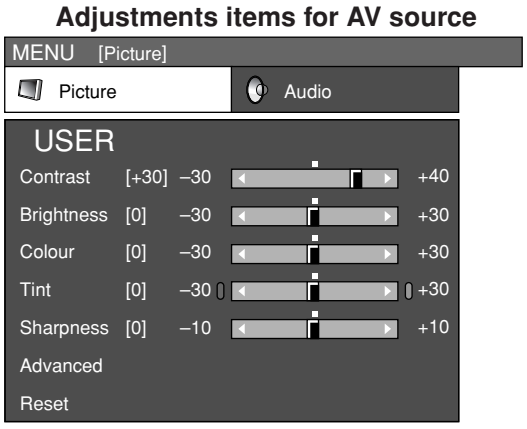
3 Press ▲/▼ to select a specific adjustment item.

4 Press ◀/▶ to adjust the item to your desired position.

NOTE

- For resetting all adjustment items to the factory preset values, press ▲/▼ to select “Reset”, and then press **ENTER**.

Adjustments items for AV source

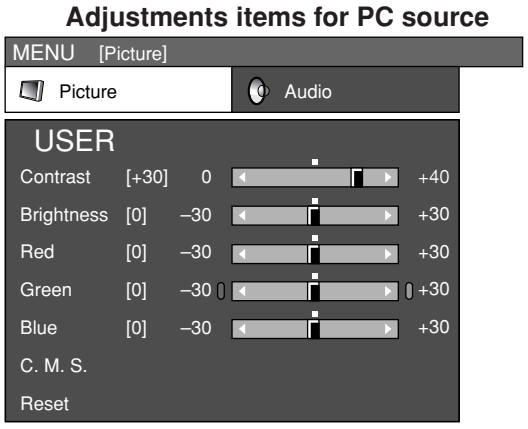


Selected item	◀button	▶button
Contrast	For less contrast	For more contrast
Brightness	For less brightness	For more brightness
Colour	For less colour intensity	For more colour intensity
Tint	Skin tones become purplish	Skin tones become greenish
Sharpness	For less sharpness	For more sharpness

NOTE

- Select “Advanced” and then press **ENTER** to set “C.M.S.”, “Colour Temp”, “Black”, “Monochrome”, “Film Mode”, “I/P Setting” or “DNR”. See pages 36 to 39.

Adjustments items for PC source



Selected item	◀button	▶button
Contrast	For less contrast	For more contrast
Brightness	For less brightness	For more brightness
Red	For weaker red	For stronger red
Green	For weaker green	For stronger green
Blue	For weaker blue	For stronger blue

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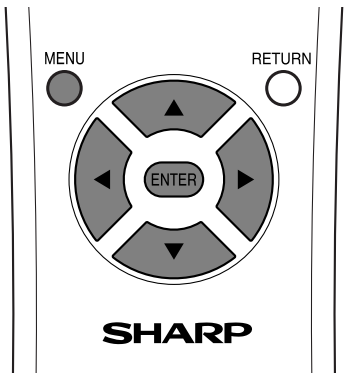
C.M.S. (Colour Management System)

Colour tone is managed using the six-colour adjustment setting.



AV input mode

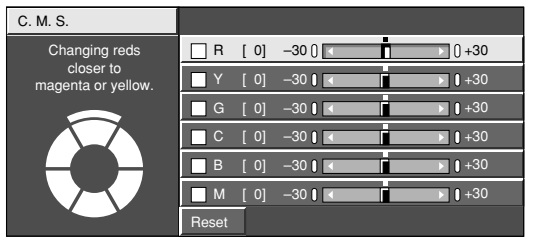
1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Picture”.
- Picture menu displays.

3 Press ▲/▼ to select “Advanced”, and then press **ENTER**.

4 Press ▲/▼ to select “C.M.S.”, and then press **ENTER**.

5 Press ▲/▼ to select a specific adjustment item.



6 Press ◀/▶ to adjust the item to your desired position.

NOTE

- For resetting all adjustment items to the factory preset values, press ▲/▼ to select “Reset”, and then press **ENTER**.

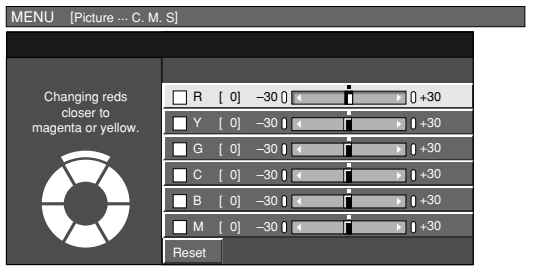
PC input mode

1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Picture”.
- Picture menu displays.

3 Press ▲/▼ to select “C.M.S.”, and then press **ENTER**.

4 Press ▲/▼ to select a specific adjustment item.



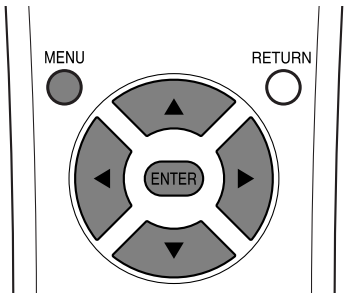
5 Press ◀/▶ to adjust the item to your desired position.

NOTE

- For resetting all adjustment items to the factory preset values, press ▲/▼ to select “Reset”, and then press **ENTER**.

Colour temperature

Adjusts the colour temperature to give the best white image.



1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Picture”.
- Picture menu displays.

3 Press ▲/▼ to select “Advanced”, and then press **ENTER**.

4 Press ▲/▼ to select “Colour Temp”, and then press **ENTER**.

5 Press ▲/▼ to select the desired level, and then press **ENTER**.

Selected item	Description
High **Mid-High** **Mid** **Mid-Low** **Low**	White with Bluish tone ⬍ White with Reddish tone

Black

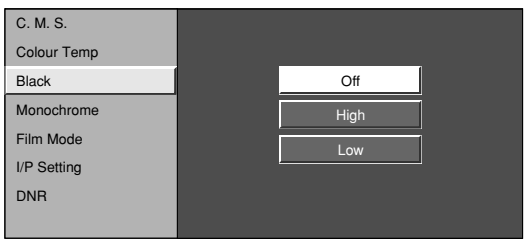
Allows you to select a level for automatic adjustment of a black areas of the image to suit viewing conditions.

1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Picture”.
- Picture menu displays.

3 Press ▲/▼ to select “Advanced”, and then press **ENTER**.

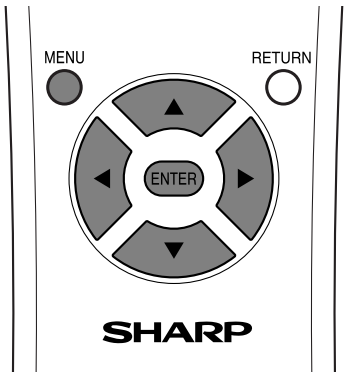
4 Press ▲/▼ to select “Black”, and then press **ENTER**.



5 Press ▲/▼ to select the desired level, and then press **ENTER**.

Monochrome

For viewing a video in monochrome.

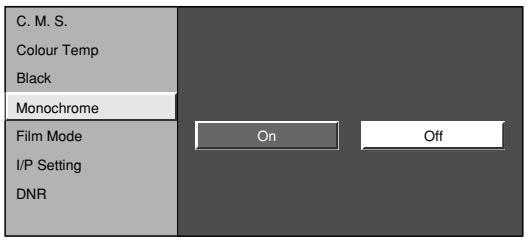


1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Picture”.
• Picture menu displays.

3 Press ▲/▼ to select “Advanced”, and then press **ENTER**.

4 Press ▲/▼ to select “Monochrome”, and then press **ENTER**.



5 Press ◀/▶ to select “On”, and then press **ENTER**.

Film mode

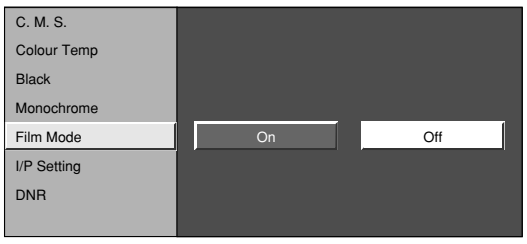
Automatically detects a film-based source (originally encoded at 24 frames/second), analyses it then recreates each still film frame for high-definition picture quality.

1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Picture”.
• Picture menu displays.

3 Press ▲/▼ to select “Advanced”, and then press **ENTER**.

4 Press ▲/▼ to select “Film Mode”, and then press **ENTER**.
• Some items may be greyed out. They are not selectable.



5 Press ◀/▶ to select “On”, and then press **ENTER**.

NOTE

• Set the Film Mode to “On” manually to detect a film-based source (originally encoded 24 frames/second) when input source has vertical frequency of 50 Hz (e.g. PAL, SECAM etc.) .

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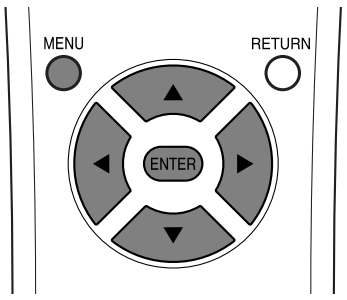
I/P setting

Adjusting the image and input signal can give you a more beautiful picture.

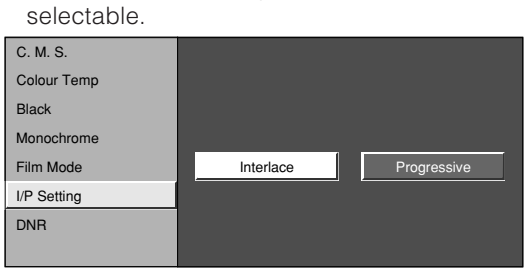


1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Picture”.
- Picture menu displays.

3 Press ▲/▼ to select “Advanced”, and then press **ENTER**.

4 Press ▲/▼ to select “I/P Setting”, and then press **ENTER**.
- Some items may be greyed out. They are not selectable.



5 Press ◀/▶ to select “Interlace” or “Progressive”, and then press **ENTER**.

NOTE

- The I/P Setting is set to Progressive when Film Mode is “On”.

DNR (Digital Noise Reduction)

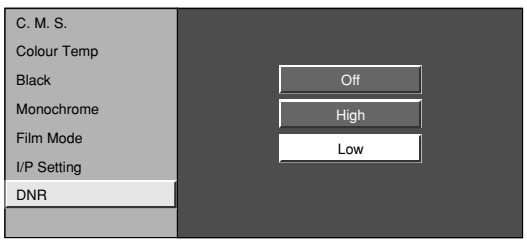
Produces a clearer video image.

1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Picture”.
- Picture menu displays.

3 Press ▲/▼ to select “Advanced”, and then press **ENTER**.

4 Press ▲/▼ to select “DNR”, and then press **ENTER**.
- Some items may be greyed out. They are not selectable.

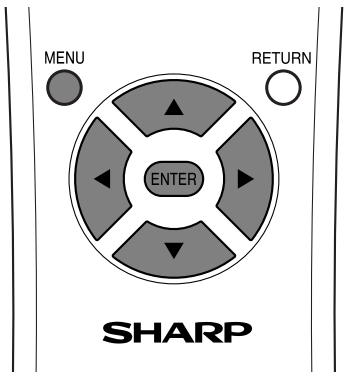


5 Press ▲/▼ to select the desired level, and then press **ENTER**.

Audio adjustment

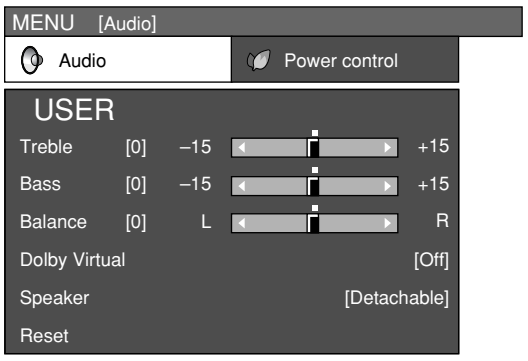
Sound adjustment

You can adjust the sound quality to your preference with the following settings.



1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Audio”.
- Audio menu displays.



3 Press ▲/▼ to select a specific adjustment item.

4 Press ◀/▶ to adjust the item to your desired position.

Selected item	◀button	▶button
Treble	For weaker treble	For stronger treble
Bass	For weaker bass	For stronger bass
Balance	Decrease audio from the right speaker	Decrease audio from the left speaker

NOTE

- For resetting all adjustment items to factory preset values, press ▲/▼ to select “Reset”, press **ENTER**, press ◀/▶ to select “Yes”, and then press **ENTER**.
- Audio menu items are greyed out when Audio output is variable or when headphones are in use.
- Balance is greyed out when Dolby Virtual is set to “On”.

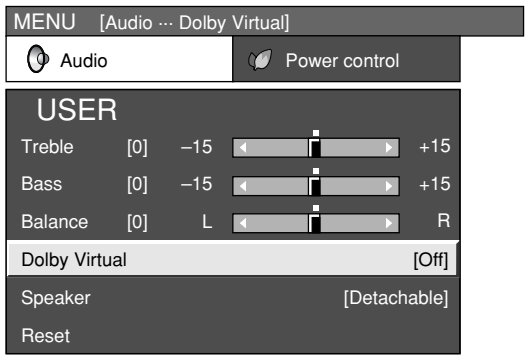
Dolby Virtual

You can also produce Dolby Virtual effects from the “Audio” setting.

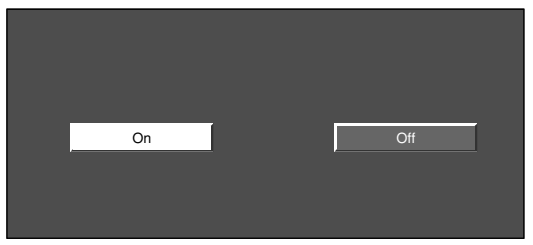
1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Audio”.
- Audio menu displays.

3 Press ▲/▼ to select “Dolby Virtual”, and then press **ENTER**.



4 Press ◀/▶ to select the desired level, and then press **ENTER**.

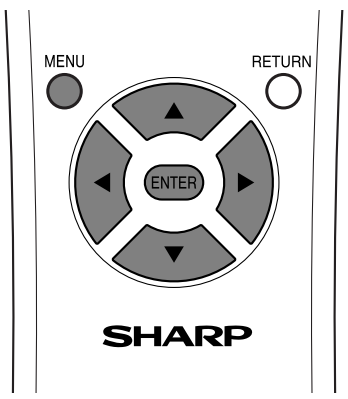


NOTE

- You can choose Dolby Virtual by pressing **Dolby V** on the remote control unit. See page 22 for Dolby Virtual.
- Balance is greyed out when Dolby Virtual is set to “On”.

Power Control

Power Control setting allows you to reduce the display brightness to save energy.



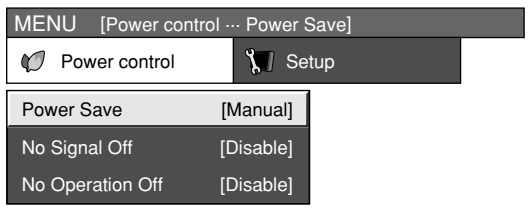
Power control for AV source

Power save
When set to “Manual” or “Auto”, power consumption is reduced by decreasing backlight brightness.

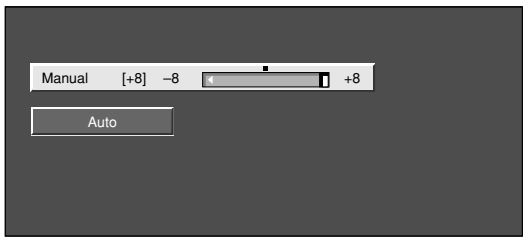
1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Power Control”.
- Power control menu displays.

3 Press ▲/▼ to select “Power Save”, and then press **ENTER**.



4 Press ◀/▶ to select the desired backlight brightness, and then press **ENTER**.



NOTE

- When setting to “Auto”, the OPC indicator lights up green, senses the surrounding light and automatically adjusts the backlight brightness. Make sure no object obstructs the OPC sensor, which could affect its ability to sense surrounding light.
- Power Save can be set differently for AV input mode and PC input mode.

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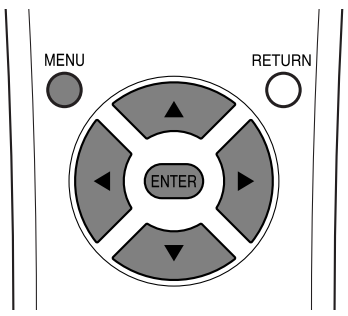
Basic adjustment settings

No signal Off

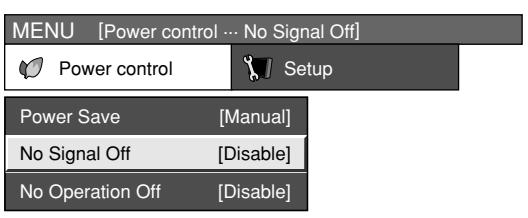
When set to “Enable”, the power will automatically shut down if no signal inputs for 15 minutes.



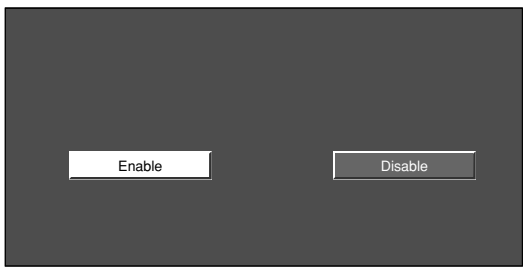
1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Power Control”.
- Power control menu displays.

3 Press ▲/▼ to select “No Signal Off”, and then press **ENTER**.



4 Press ◀/▶ to select “Enable”, and then press **ENTER**.



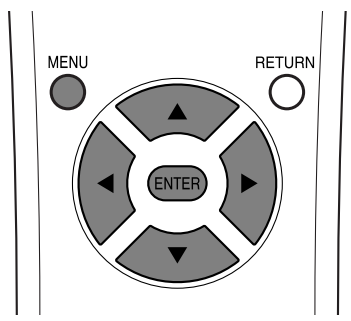
- Five minutes before the power shuts down, remaining time displays every minute.

NOTE

- “Disable” is factory preset value.
- When a TV programme finishes, and the AVC System receives signal input, this function may not operate.

No operation Off

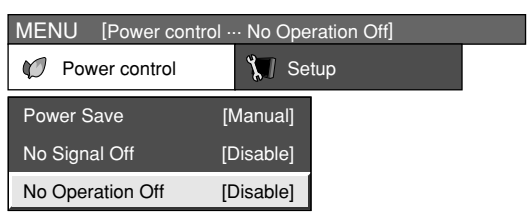
When set to “Enable”, the power will automatically shut down if there is no operation for 3 hours.



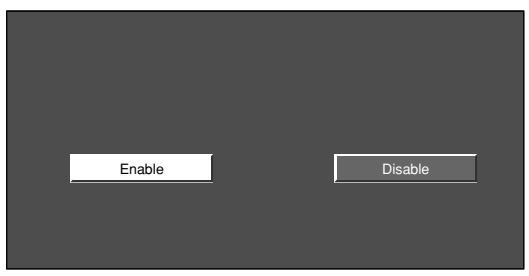
1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Power Control”.
- Power control menu displays.

3 Press ▲/▼ to select “No Operation Off”, and then press **ENTER**.



4 Press ◀/▶ to select “Enable”, and then press **ENTER**.



- Five minutes before the power shuts down, remaining time displays every minute.

NOTE

- “Disable” is factory preset value.

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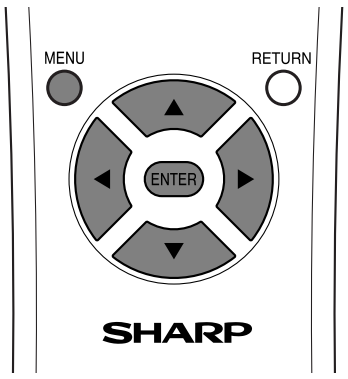
Power Control for PC source

Power Control allows you to reduce display brightness and save energy.

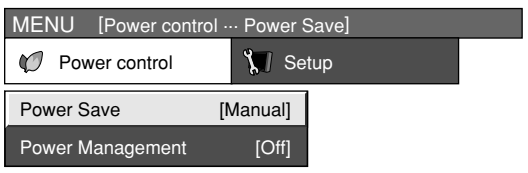


Power save

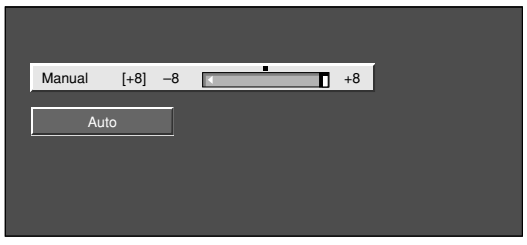
1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Power Control”.
- Power control menu displays.

3 Press ▲/▼ to select “Power Save”, and then press **ENTER**.



4 Press ◀/▶ to select the desired backlight brightness, and then press **ENTER**.



NOTE

- When setting to “Auto”, the OPC indicator lights up green, senses the surrounding light and automatically adjusts the backlight brightness. Make sure no object obstructs the OPC sensor, which could affect its ability to sense surrounding light.
- Power Save can be set differently for AV input mode and PC input mode.

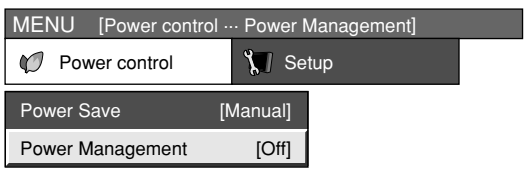
Power management

When set, the power will automatically shut down.

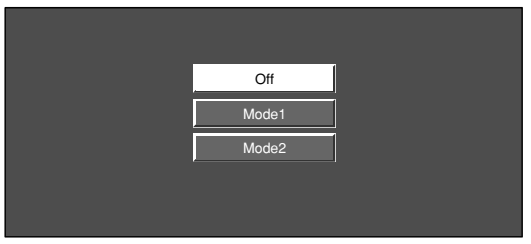
1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Power control”.
- Power control menu displays.

3 Press ▲/▼ to select “Power Management”, and then press **ENTER**.



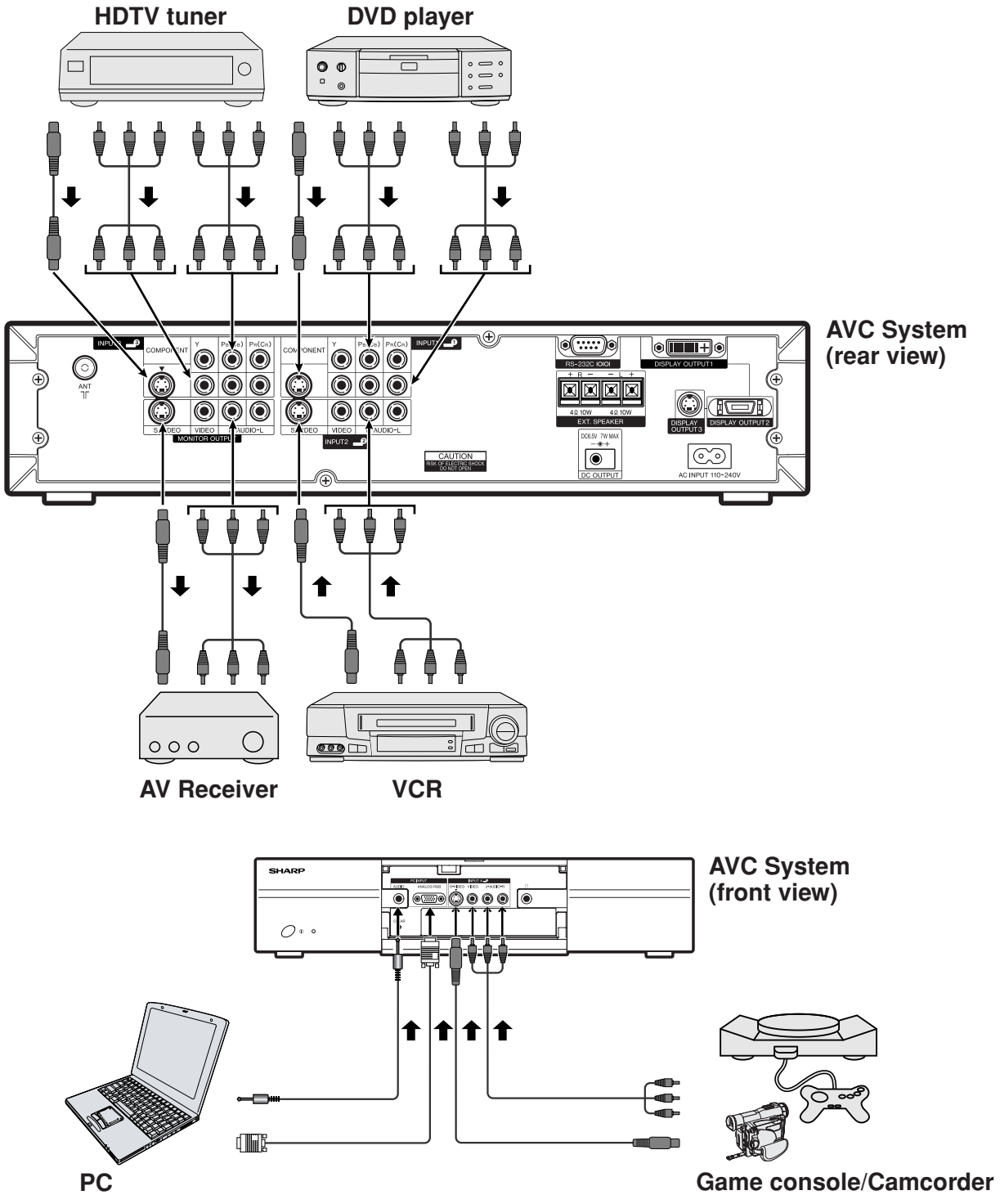
4 Press ▲/▼ to select “Mode1” or “Mode2”, and then press **ENTER**.



Selected item	Description
Off	• No power management • Factory preset value.
Mode1	• If no signal inputs for 8 minutes, the power shuts down. • Even if you start using the PC and the signal inputs again, the System stays off. • The System turns on again by pressing ⏻ | (STANDBY/ON) button on the Display or **POWER** on the remote control unit. (See page 19.)
Mode2	• If no signal inputs for 8 seconds, the power shuts down. • When you start using the PC and the signal inputs again, the System turns on.

Using external equipment

You can connect many types of external equipment to your System, like a VCR, DVD player, HDTV tuner, PC, game console and camcorder. To view external source images, select the input source from **TV**/**VIDEO**/**PC** on the remote control unit or **INPUT** on the Display.



CAUTION

- To protect all equipment, always turn off the AVC System before connecting to a VCR, DVD player, HDTV tuner, PC, game console, camcorder or other external equipment.

NOTE

- Please refer to the relevant operation manual (DVD player, PC, etc.) carefully before making connections.

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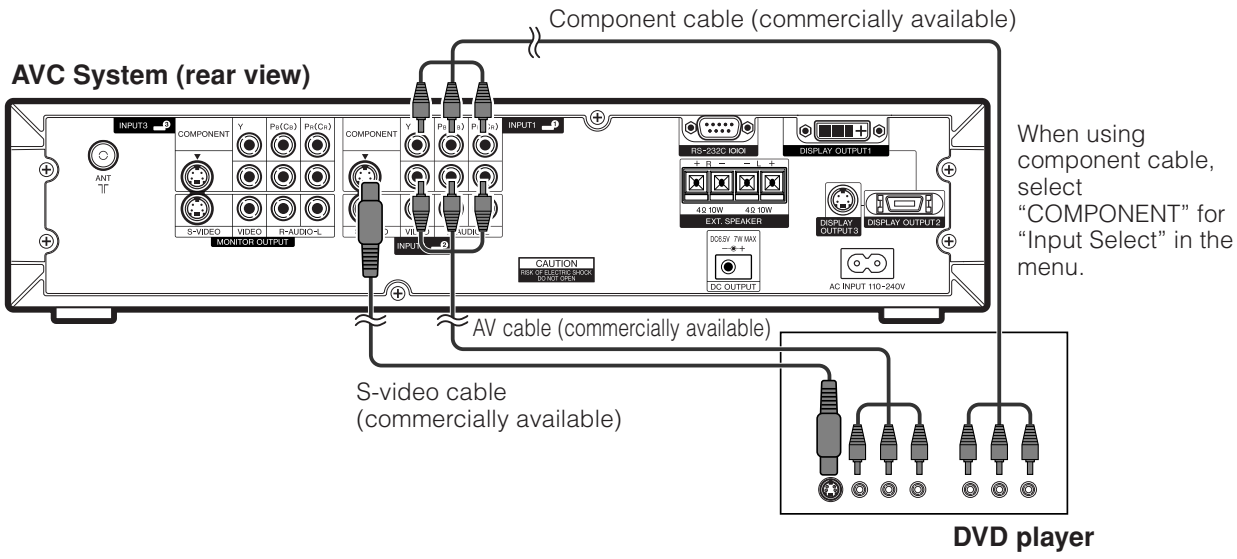
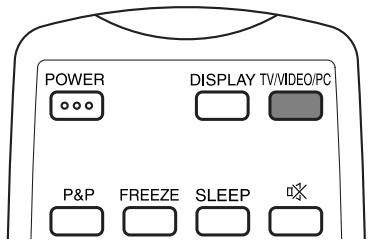
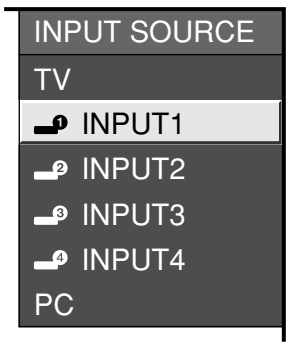
Watching a DVD image

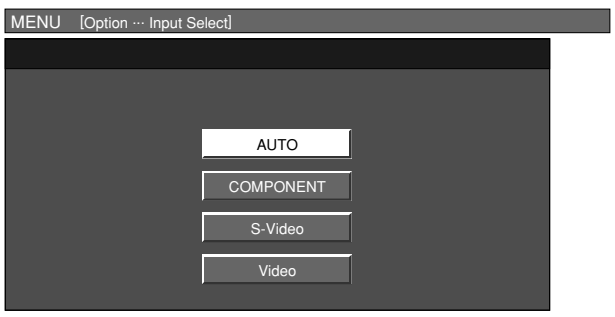
Connecting a DVD player

You can use the INPUT 1 terminal when connecting to a DVD player and other audiovisual equipment.


Component cable (commercially available)
AVC System (rear view)
When using component cable, select “COMPONENT” for “Input Select” in the menu.
AV cable (commercially available)
S-video cable
(commercially available)
DVD player







(For INPUT1 signal)

Displaying a DVD image

To watch a DVD image, select “INPUT1” from “INPUT SOURCE” menu using **TV/VIDEO/PC** on the remote control unit or **INPUT** on the Display.

The setting is stored and can be selected in the “INPUT SOURCE” menu.

NOTE

- Each time **TV/VIDEO/PC** is pressed, the input source toggles.
- If the DVD image does not come in clearly, you may need to change the input signal type setting on the “Input Select” menu.
- Refer to your DVD player operation manual for the signal type.
- See page 54 for how to select the signal type.
- Below are signal types used for COMPONENT connection. 480i (60Hz), 480p (60Hz), 580i (50Hz), 580p (50Hz), 720p (60Hz)[1], 1080i (50Hz[2]/60Hz)
  1 Auto-detects video signal frequency.
  2 1080i (50Hz) corresponds to a SMPTE275M signal. (Horizontal frequency is 28.125kHz.)

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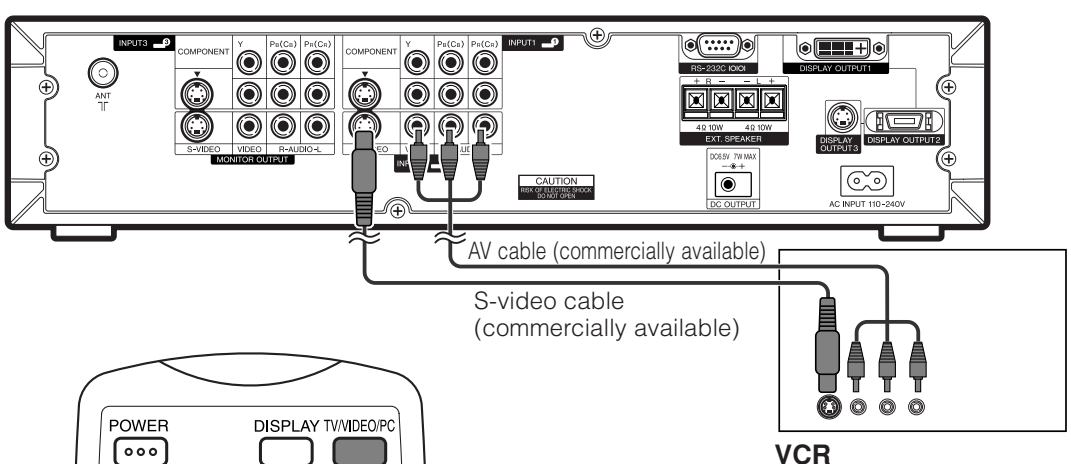
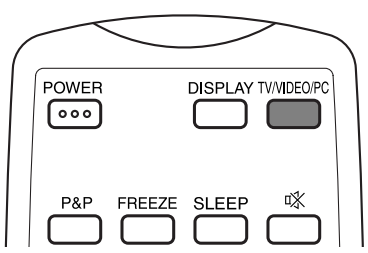
Watching a VCR image

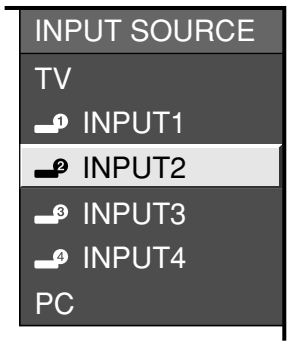
Connecting a VCR

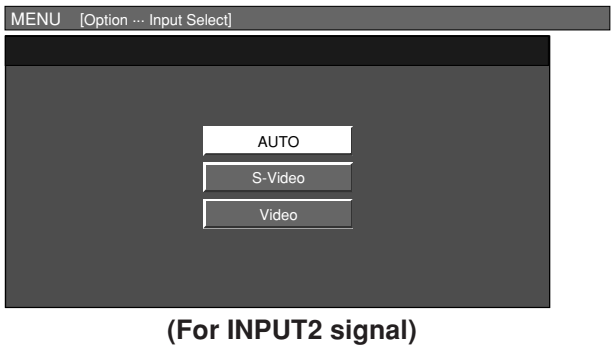
You can use the INPUT 2 terminal when connecting a VCR and other audiovisual equipment.

AVC System (rear view)









(For INPUT2 signal)

Displaying a VCR image

To watch a VCR image, select “INPUT2” from the “INPUT SOURCE” menu using **TV/VIDEO/PC** on the remote control unit or **INPUT** on the Display.

The setting is stored and can be selected in the “INPUT SOURCE” menu.

NOTE

- Each time **TV/VIDEO/PC** is pressed, the input source toggles.
- If the VCR image does not come in clearly, you may need to change the input signal type setting on the “Input Select” menu.
- Refer to your VCR operation manual for the signal type.
- See page 54 for how to select the signal type.

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Enjoying a game console and viewing camcorder images

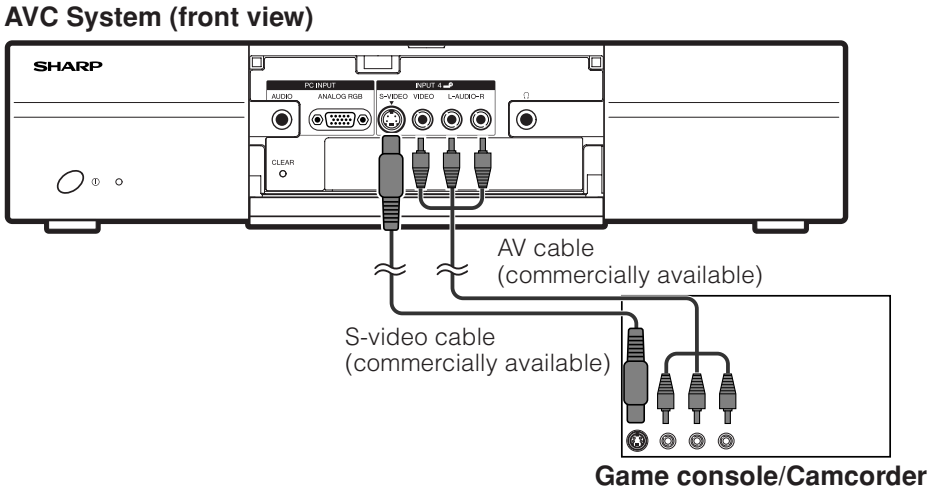
Connecting a game console or camcorder

A game console, camcorder and some other audiovisual equipment are conveniently connected using the INPUT 4 terminals.

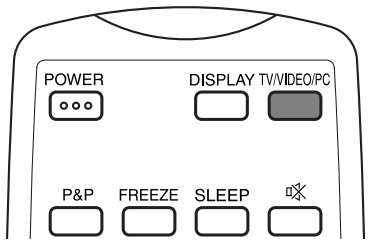
NOTE

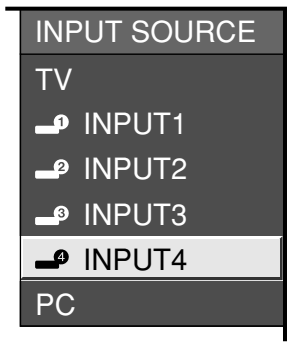
- The S-video terminal has priority over the video terminals.

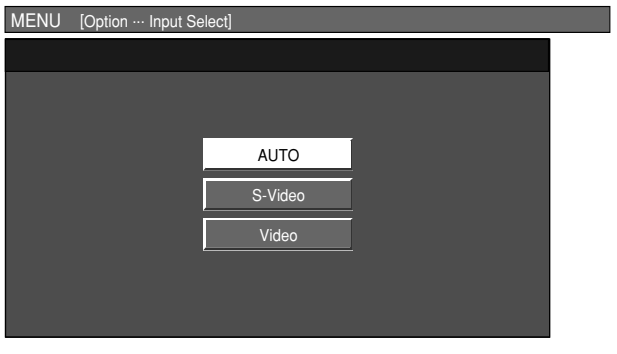
AVC System (front view)



Game console/Camcorder







(For INPUT4 signal)

Displaying an image of the game console or camcorder

To connect a game console or view a camcorder, select "INPUT4" from the "INPUT SOURCE" menu using **TV/VIDEO/PC** on the remote control unit or **INPUT** on the Display.

The setting is stored and can be selected on the "INPUT SOURCE" menu.

NOTE

- Each time **TV/VIDEO/PC** is pressed, the input source toggles.
- Refer to your game console or camcorder operation manual for the signal type.
- See page 54 for how to select the signal type.

Viewing an image from a PC

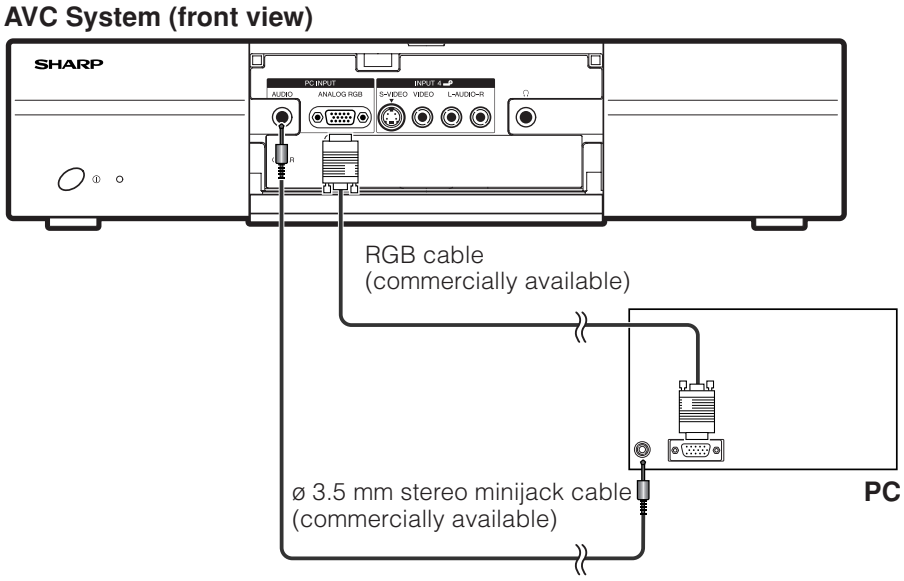
Connecting a PC

Use the PC terminals to connect a PC.

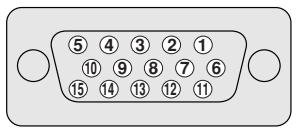
NOTE

- The PC input terminals are DDC1/2B-compatible.
- Refer to page 68 for a list of PC signals compatible with the System.

AVC System (front view)



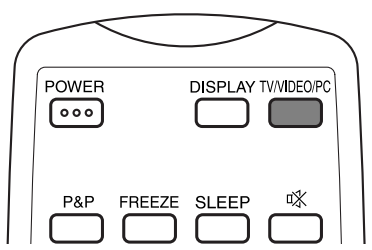
Signal names for 15-pin mini D-sub connecter

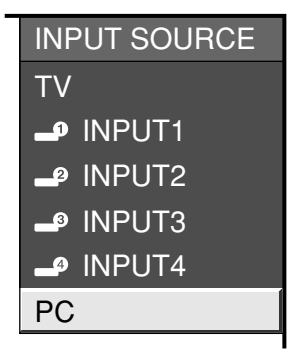


Pin No.	Signal name	Pin No.	Signal name	Pin No.	Signal name
①	R	⑥	GND (Ground)	⑪	Not connected
②	G	⑦	GND (Ground)	⑫	SDA
③	B	⑧	GND (Ground)	⑬	HD
④	Not connected	⑨	+5V	⑭	VD
⑤	CSYNC	⑩	GND (Ground)	⑮	SCL

NOTE

- Macintosh adaptor may be required for use for some Macintosh computers.





Displaying an image from a PC

To view an image from a PC, select “PC” from the “INPUT SOURCE” menu using **TV/VIDEO/PC** on the remote control unit or **INPUT** on the Display.

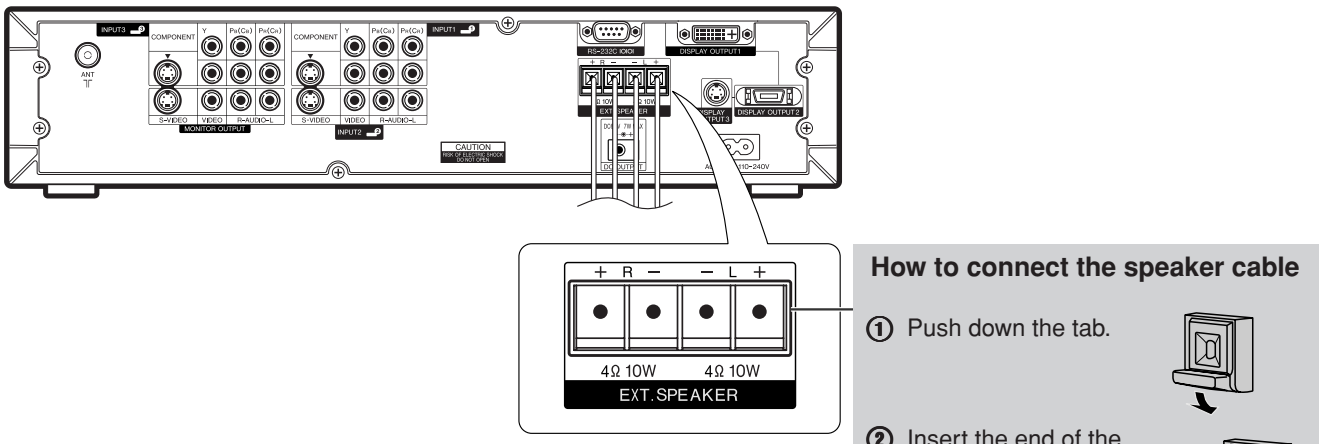
When connecting to a PC, the correct input signal type is automatically detected. (See page 59.) If the PC image does not come in clearly, you may need to set the Auto Sync. adjustment in the “Setup” menu. (See page 53.)

NOTE

- Each time **TV/VIDEO/PC** is pressed, the input source toggles.

Connecting external speakers

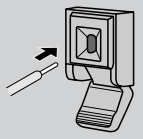
Rear view



How to connect the speaker cable

① Push down the tab.

② Insert the end of the cable.



③ Put the lid back down.

When using external speakers
- Change the speaker setting to external speakers. (See page 50.)

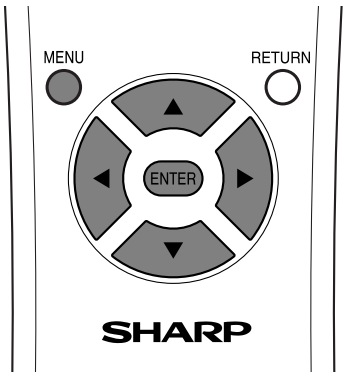
Make sure to connect the speaker jack and cable polarity (+, −) properly
- The speaker jacks have plus (+) and minus (−) polarity.
- Plus is red and minus is black.
- The cables are also divided into plus and minus.
- When connecting the left/right speakers, be sure to connect the plus/minus jacks with the correct cables.

NOTE
- Unplug the AC cord from the AC outlet before installing the speakers.

CAUTION
- Make sure external speakers have 4 ohm and 10 watt specifications.
- Connect the plus/minus jacks with the correct cables. Incorrect connection may cause a short.

Selecting speakers

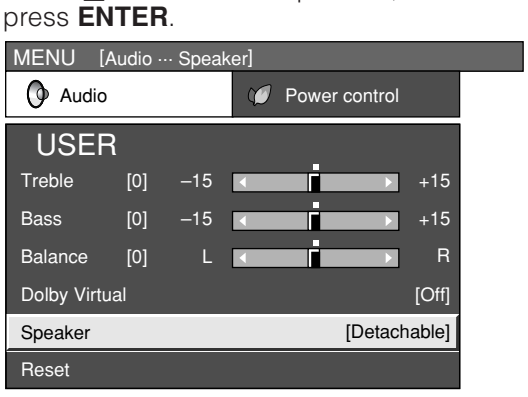
You can output audio using the supplied speakers (detachable) or other external speakers.



1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Audio”.
- Audio menu displays.

3 Press ▲/▼ to select “Speaker”, and then press **ENTER**.



4 Press ◀/▶ to select “External” or “Detachable”, and then press **ENTER**.

NOTE

- Audio menu items are greyed out when Audio output is variable or when headphones are in use.
- Balance is greyed out when Dolby Virtual is set to “On”.

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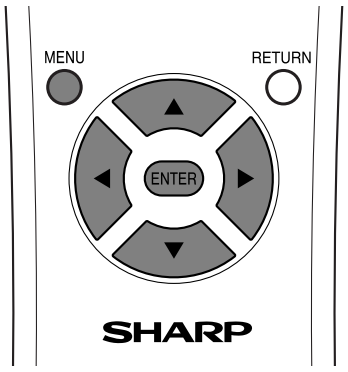
Useful adjustment settings

Image position (AV input mode only)

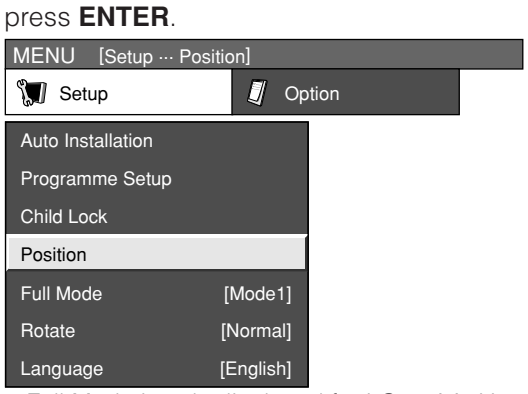
For adjusting a picture's horizontal and vertical position.



1 Press **MENU** and the MENU screen displays.

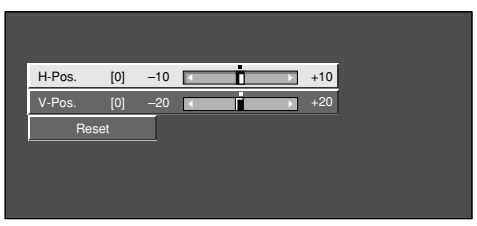
2 Press ◀/▶ to select "Setup".

3 Press ▲/▼ to select "Position", and then press **ENTER**.



- Full Mode is only displayed for LC-30AA1H.

4 Press ▲/▼ to select "H-Pos." or "V-Pos.".



5 Press ◀/▶ to adjust the item to your desired position.

NOTE

- For resetting all adjustment items to the factory preset values, press ▲/▼ to select "Reset", and then press **ENTER**.
- **Adjustments are stored separately according to input source.**
- You can easily move the image position as shown on page 52, but when the power is switched off the image will return to the previously memorised position.

Selected item	Description
H-Pos.	Centres the image by moving it to the left or right.
V-Pos.	Centres the image by moving it up or down.

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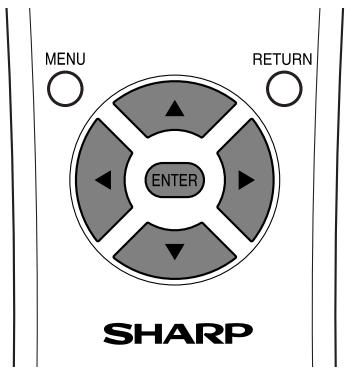
Moving the picture on the screen

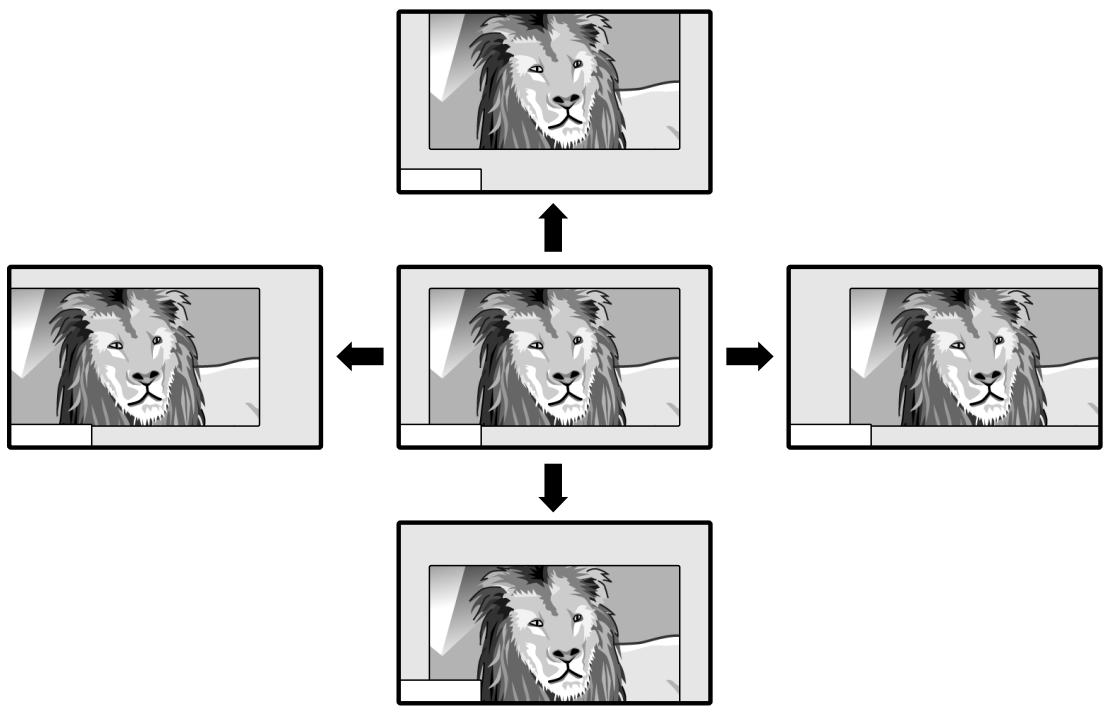
You can move the picture around on the screen.



Press ▲/▼/◀/▶ to move an image on the screen to the desired position. Press **ENTER** to return to the initial image position.

NOTE

- While pressing ▲/▼/◀/▶, an on-screen image, “Adjusting Position” displays to the desired position.
- This setting cannot be stored. Once the System shuts down or enters standby mode, the setting is erased. To move the picture around the screen again, you must perform the above procedure again.
- The image position setting using the steps on page 51 can be stored. Select either according to your objectives.
- “TV”, “INPUT1”, “INPUT2”, “INPUT3” and “INPUT4” can each adjust the image position setting on this page. The same for WIDE modes.
- An on-screen image from a PC source cannot be moved around.
- Even when the image fills the screen, its position can be adjusted with this function.



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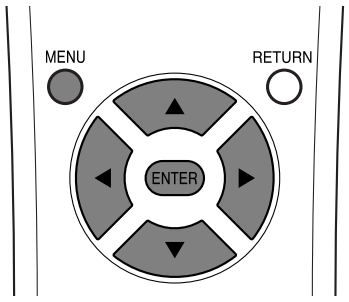
Auto Sync. adjustment (PC input mode only)

For automatically adjusting the PC image.

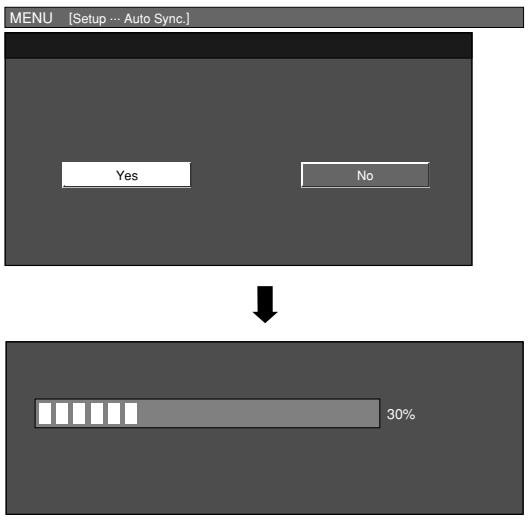


1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Setup”.
- Setup menu displays.

3 Press ▲/▼ to select “Auto Sync.”, and then press **ENTER**.

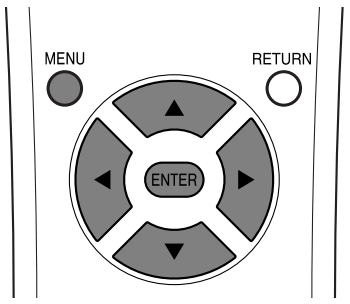
4 Press ◀/▶ to select “Yes”, and then press **ENTER**.
- Auto Sync. starts and “Adjusting the image” displays.



NOTE
- When Auto Sync. is successful, “Auto Sync. completed successfully” displays. If not, Auto Sync. failed.
- Auto Sync. may fail even if “Auto Sync. completed successfully” displays.
- Auto Sync. is likely to succeed when an input PC image has wide vertical stripes (ex. pattern with high contrast stripes, or cross-hatched).
  It may fail when an input PC image is solid (low contrast).
- Be sure to connect the PC to the AVC System and switch it on before starting Auto Sync.

Fine Sync. adjustment (PC input mode only)

Ordinarily you can easily adjust the picture as necessary to change image position using Auto Sync. In some cases, however, manual adjustment is needed to optimise the image.



1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Setup”.

3 Press ▲/▼ to select “Fine Sync.”, and then press **ENTER**.

4 Press ▲/▼ to select the specific adjustment item.

5 Press ◀/▶ to adjust the item to your desired position.

NOTE
- For resetting all adjustment items to the factory preset values, press ▲/▼ to select “Reset”, and then press **ENTER**.

Selected item	Description
H-Pos.	Centres the image by moving it to the left or right.
V-Pos.	Centres the image by moving it to up or down.
Clock	Adjusts the clock frequency.
Phase	Adjusts the clock phase.

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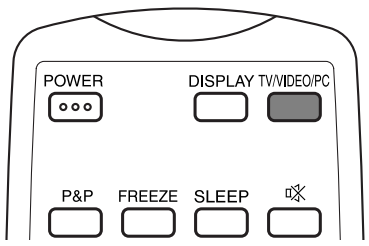
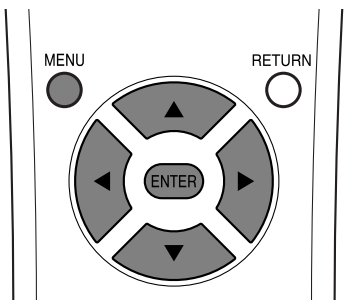
Input signal source

Input selection

Can use for selecting the input source.





1 Press **TV/VIDEO/PC** on the remote control unit or **INPUT** on the Display.
- INPUT SOURCE menu displays.

2 Press **TV/VIDEO/PC** on the remote control unit or **INPUT** on the Display to select the input source.
- An image from the selected source automatically displays.
- You can also select the input source by pressing ▲/▼.

NOTE

- Some items may be greyed out. They are not selectable.

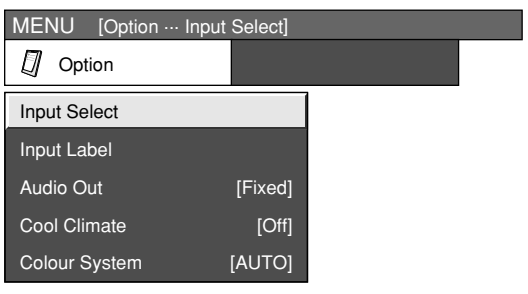
Input signal setting

For setting the signal type of external equipment.

1 Press **MENU** and the MENU screen displays.

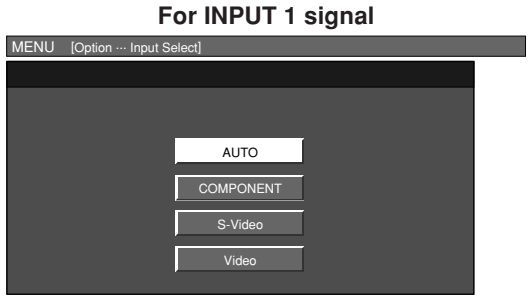
2 Press ◀/▶ to select “Option”.
- Option menu displays.

3 Press ▲/▼ to select “Input Select”, and then press **ENTER**.

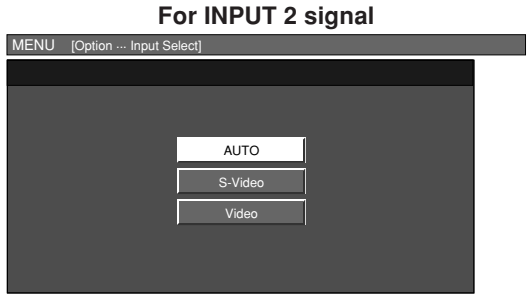


4 Press ▲/▼ to select a signal type you want to set, and then press **ENTER**.
- If the selected signal type is incorrect, an image does not display or no colour image displays.

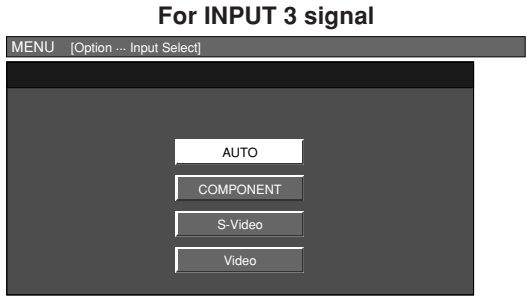
For INPUT 1 signal



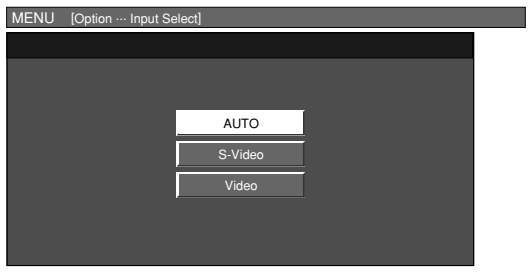
For INPUT 2 signal



For INPUT 3 signal



For INPUT 4 signal



NOTE

- **If no (colour) image displays, try to change the other signal type.**
- Check the operation manual of the external equipment for the signal type.
- Below are signal types used for COMPONENT connection.
  480i (60Hz), 480p (60Hz), 580i (50Hz), 580p (50Hz), 720p (60Hz)[1], 1080i (50Hz[2]/60Hz)
  1 Auto-detects video signal frequency.
  2 1080i (50Hz) corresponds to a SMPTE275M signal. (Horizontal frequency is 28.125kHz.)

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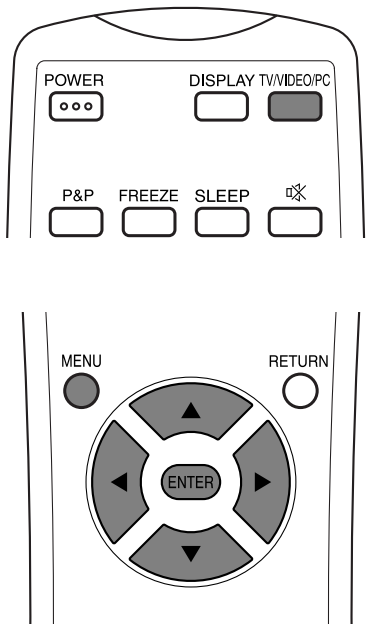
Input Label

Lets you set the input terminal displayed using the INPUT SOURCE menu or channel display.



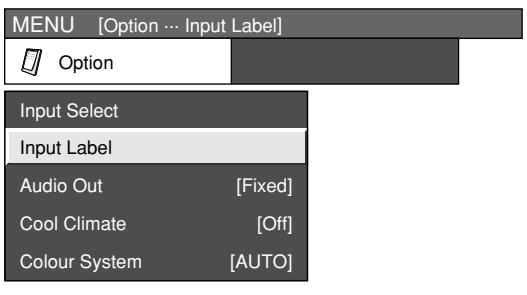
1 Press **TV/VIDEO/PC** on the remote control unit or **INPUT** on the Display.
- INPUT SOURCE menu displays.

2 Press **TV/VIDEO/PC** on the remote control unit or **INPUT** on the Display to select INPUT1.
- An image from the selected source automatically displays.
- You can also select the input source by pressing ▲/▼.

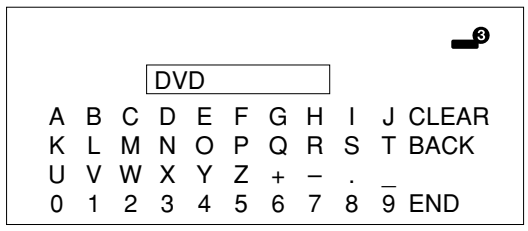
3 Press **MENU** and the MENU screen displays.

4 Press ◀/▶ to select “Option”.
- Option menu displays.

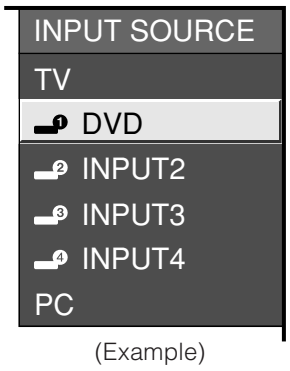
5 Press ▲/▼ to select “Input Label”, and then press **ENTER**.



6 Press ▲/▼/◀/▶ to select each character of the new name for the channel, and then press **ENTER**.



7 Repeat the above until the name is fully spelt out, and then press **ENTER**.
- The name can be 6 characters or less.



(Example)

NOTE
- The name you input will not be translated.
- TV and PC are fixed.

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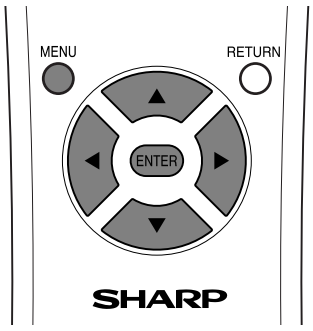
Colour system setting (AV input mode only)

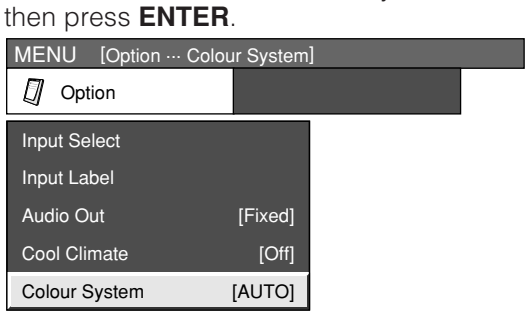
You can change the colour system to one that is compatible with the image on the screen.



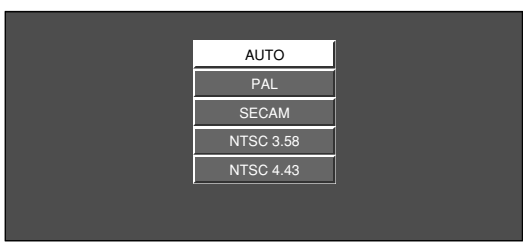
1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Option”.
- Option menu displays.

3 Press ▲/▼ to select “Colour System”, and then press **ENTER**.



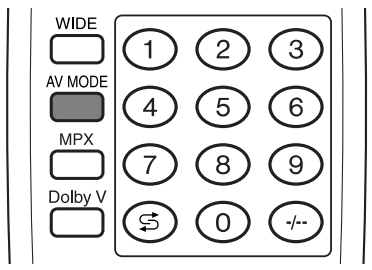
4 Press ▲/▼ to select a compatible video signal system of your equipment, and then press **ENTER**.
- Some items may be greyed out. They are not selectable.



NOTE
- Factory preset value is “AUTO”.
- If “AUTO” is selected, colour system for each channel is automatically set. If an image does not display clearly, select another colour system (e.g. PAL, NTSC 4.43).

AV mode selection

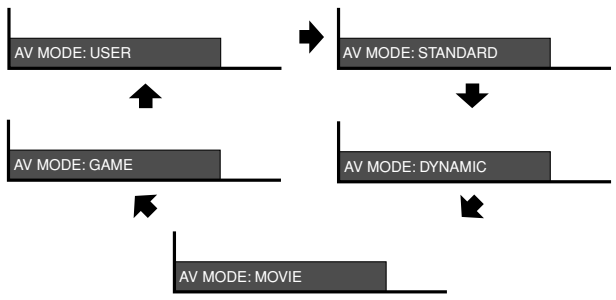
AV mode gives you five viewing options to choose from to best match the system environment, which can vary due to factors like room-brightness, type of programme watched or the type of image input from external equipment.



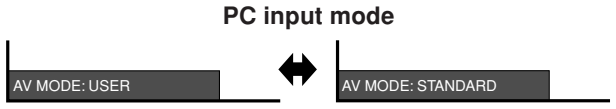
1 Press **AV MODE**.
- Present AV mode displays.

2 Press **AV MODE** again before the mode displayed on the screen disappears.
- The mode changes as shown below.

AV input mode



PC input mode



Selected item	Description
USER	Allows the user to customise settings as desired. You can set the mode for each input source.
STANDARD	For a highly defined image in a normally bright room
DYNAMIC	For a clear-cut image emphasising high contrast for sports viewing
MOVIE	For a movie
GAME	Lowers image brightness for easier viewing.

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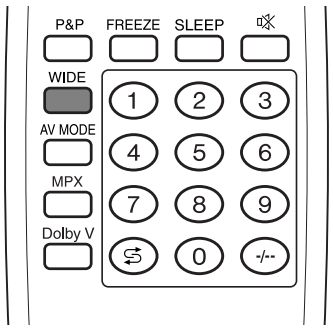
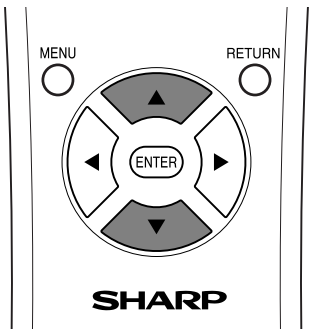
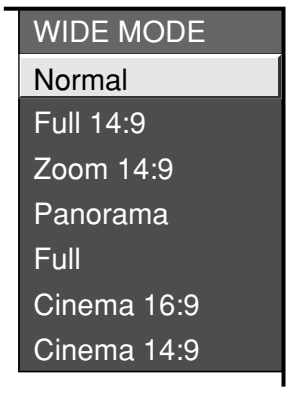






WIDE mode (for AV input mode)

Manual Selection

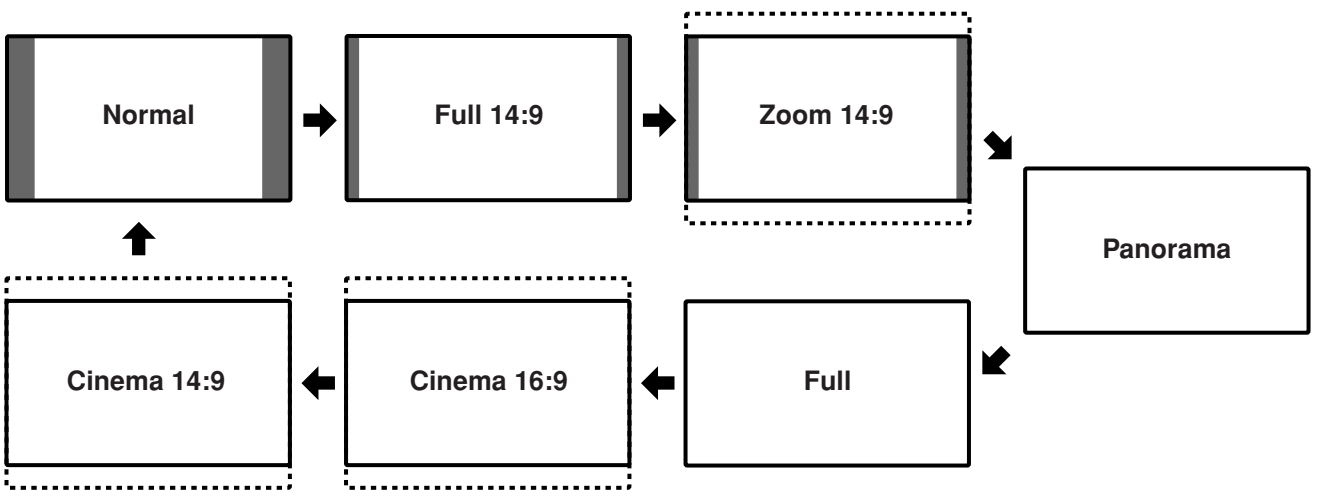
1 Press **WIDE**.

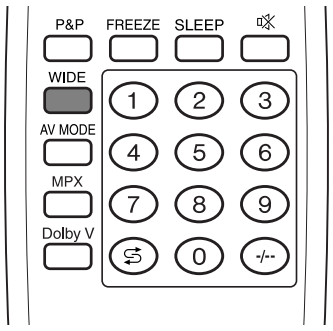
- The WIDE MODE menu displays.
- The menu lists the wide mode options selectable for the type of video signal currently received.

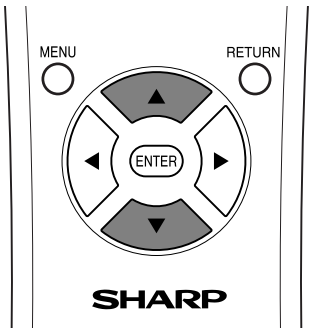
2 Press **WIDE** or ▲/▼ while the WIDE MODE menu displays on the screen.

- As you toggle down the options, each is immediately reflected on the Display. No need to press **ENTER**.

Selected item	Description
Normal	For 4:3 “standard” pictures. A side bar appears on each side.
Full 14:9	For 14:9 squeeze pictures. A thin side bar appears on each side.
Zoom 14:9	For 14:9 letterbox pictures. A thin side bar appears on each side, and you may also see bars on the top and bottom with some programmes.
Panorama	In this mode the picture is progressively stretched toward each side of the screen.
Full	For 16:9 squeeze pictures.
Cinema 16:9	For 16:9 letterbox pictures. Bars may appear on the top and bottom with some programmes.
Cinema 14:9	For 14:9 letterbox pictures. Bars may appear on the top and bottom with some programmes.

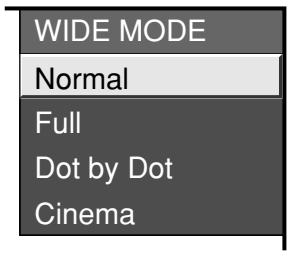




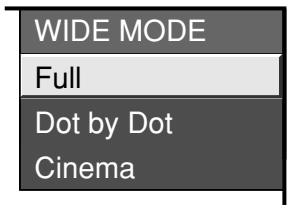


EXAMPLE

Input signal (640 × 480)



Input signal (1024 × 768)



WIDE mode (for PC input mode)

You can select the screen size.

NOTE

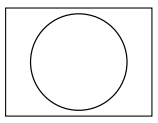
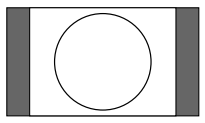
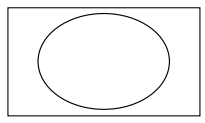
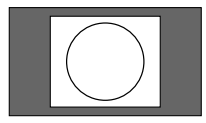
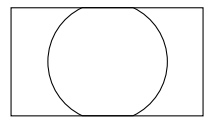
- Connect the PC before making adjustments. (See page 48.)
- Selectable screen size may vary with input signal type.

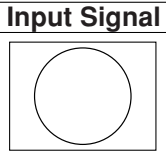
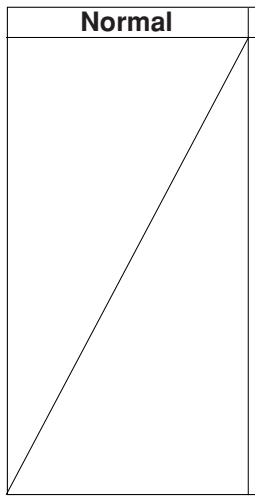
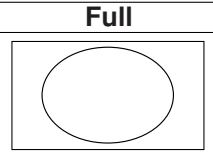
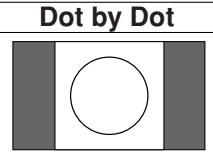
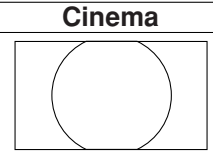
1 Press **WIDE**.
- The WIDE MODE menu displays.

2 Press **WIDE** or ▲/▼ to select a desired item on the menu.

EXAMPLE

Screen size images.

Input Signal	Normal	Full	Dot by Dot	Cinema
 640 × 480	 Keeps the original aspect ratio in a full screen display.	 An image fully fills the screen.	 Detects the resolution of the signal and displays an image with the same number of pixels on the screen.	 Keeps the original aspect ratio in a full screen display. The top and bottom of the image is slightly cropped.

Input Signal	Normal	Full	Dot by Dot	Cinema
 1024 × 768		 An image fully fills the screen.	 Detects the resolution of the signal and displays an image with the same number of pixels on the screen.	 Keeps the original aspect ratio in a full screen display. The top and bottom of the image is slightly cropped.

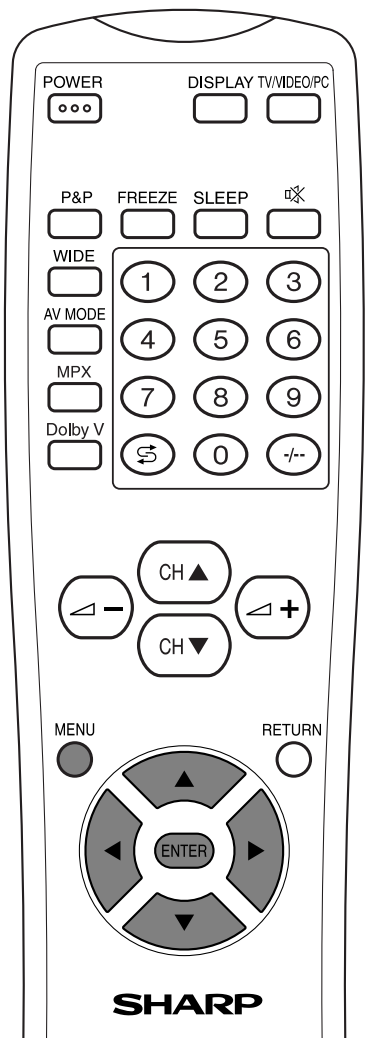
Input signal (PC input mode only)

- Some input signals may have to be registered manually to display properly.
- The pairs of input signals (resolutions) in the list below are not distinguishable when received. In such case, you have to set the correct signal manually. After setting once, it will display when the same signal (resolution) is input again.

640×400	720×400
640×480	848×480
1024×768	1280×768

NOTE

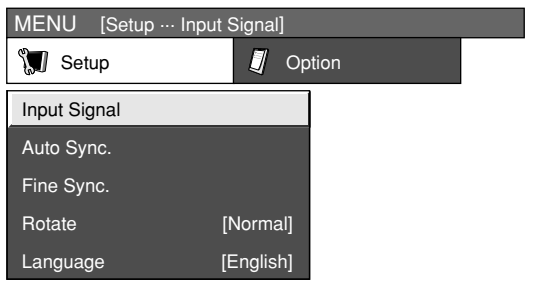
- You can only select the “Input Signal” on the Setup menu when receiving one of the 6 input signals listed above.



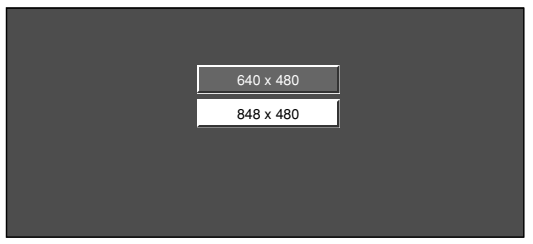
1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Setup”.
- Setup menu displays.

3 Press ▲/▼ to select “Input Signal” and then press **ENTER**.



4 Press ▲/▼ to select the desired input signal on the display.



(Example)

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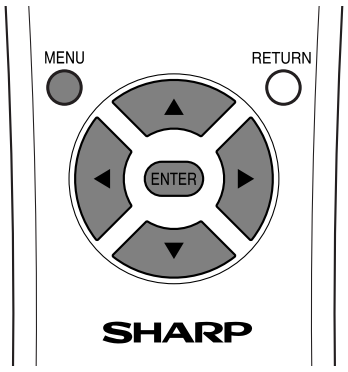
Selecting Full Mode display (for AV input mode) (LC-30AA1H only)

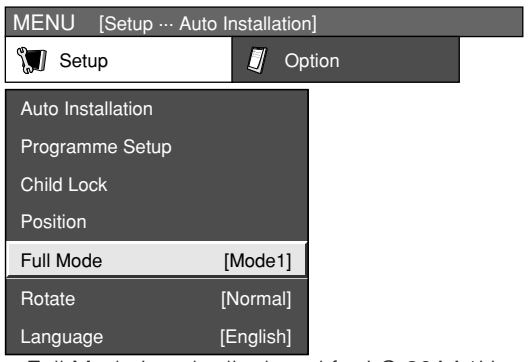
Select the display type in Full Mode.



1 Press **MENU** and the MENU screen displays.

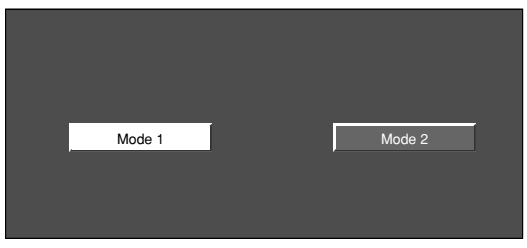
2 Press ◀/▶ to select “Setup”.

3 Press ▲/▼ to select “Full Mode”, and then press **ENTER**.



- Full Mode is only displayed for LC-30AA1H.

4 Press ◀/▶ to select “Mode1” or “Mode2”, and then press **ENTER**.



Full Mode screen

Full mode “Mode1”

Full mode “Mode2”

Selected item	Description
Mode1	Projects 16:9 squeeze image evenly over entire screen.
Mode2	Displays a 16:9 squeeze image without distortion. However, black bands appear at the top and bottom.

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Rotate

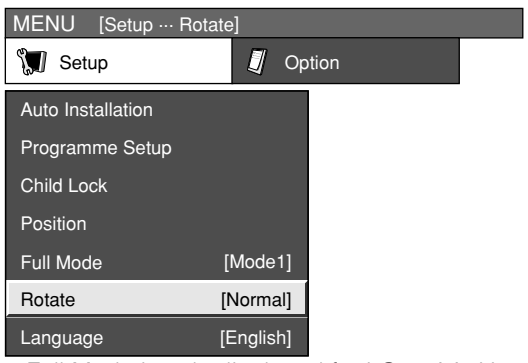
You can set the orientation of the picture.

AV input mode

1 Press **MENU** and the MENU screen displays.

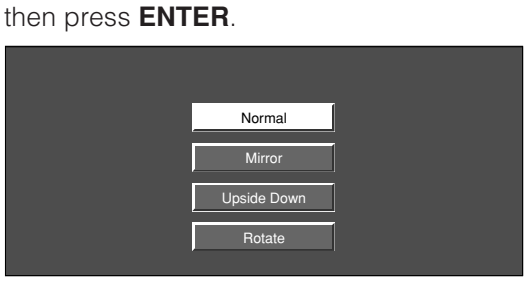
2 Press ◀/▶ to select “Setup”.

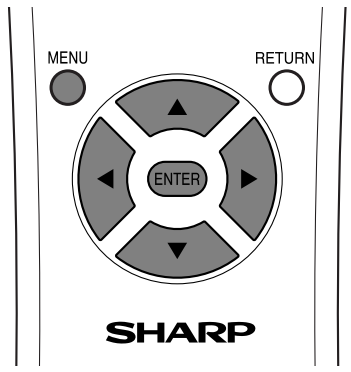
3 Press ▲/▼ to select “Rotate”, and then press **ENTER**.



- Full Mode is only displayed for LC-30AA1H.

4 Press ▲/▼ to select the desired mode, and then press **ENTER**.



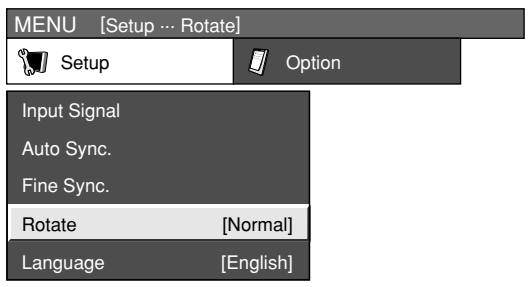


PC input mode

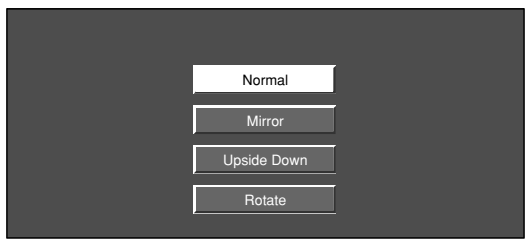
1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Setup”.

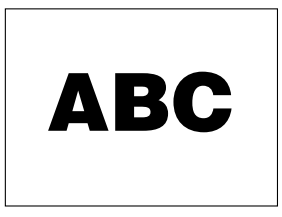
3 Press ▲/▼ to select “Rotate”, and then press **ENTER**.



4 Press ▲/▼ to select the desired mode, and then press **ENTER**.

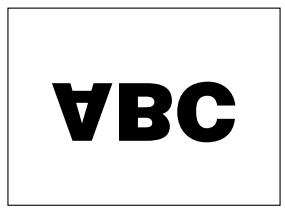


[Normal]: normal image.

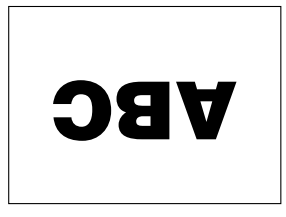


[Mirror]: mirror image.

[Upside Down]: upside down image.



[Rotate]: rotated image.



NOTE

- If you choose “Mirror” or “Rotate”, the sound orientation also changes.

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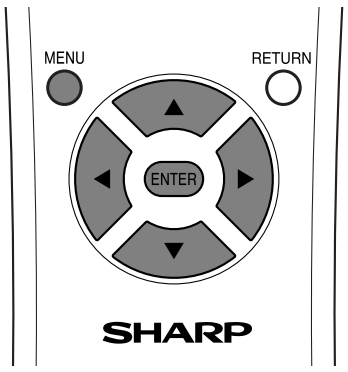
Audio out

Allows you to select what controls the audio output.

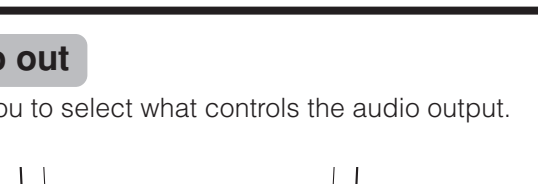


1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Option”.
- Option menu displays.

3 Press ▲/▼ to select “Audio Out”, and then press **ENTER**.

(On-screen display for AV input mode.)



(On-screen display for PC input mode.)

4 Press ◀/▶ to select “Fixed” or “Variable”, and then press **ENTER**.

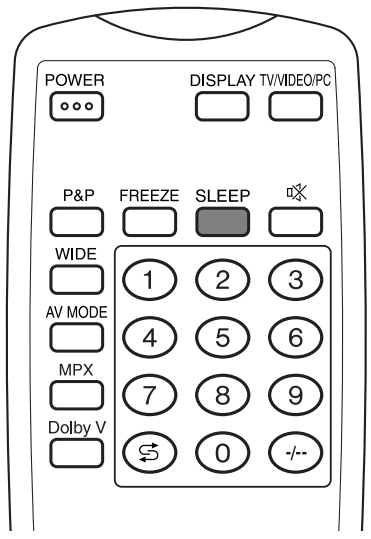
NOTE

- Audio menu items are greyed out when Audio output is set to “Variable”.

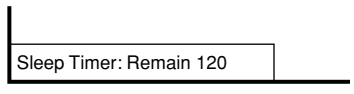
Selected item	Description
Fixed	• Sound via speakers is adjusted with ◿ −/+ on the remote control unit or the Display. • Sound via the MONITOR OUTPUT terminal is not adjustable and constantly outputs.
Variable	• Sound via the MONITOR OUTPUT terminal is adjusted with ◿ −/+ on the remote control unit or the Display. • Sound via speakers is muted.

Sleep timer

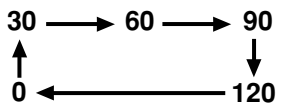
Allows you to set a time when the TV automatically switches to standby.



1 Press **SLEEP**.
- Remaining time displays when sleep timer has been set.



2 Each time you press **SLEEP**, the remaining time switches as shown below.
- When the time has been set, countdown automatically starts.
- Five minutes before the preset of time expires, the remaining time displays each minute.



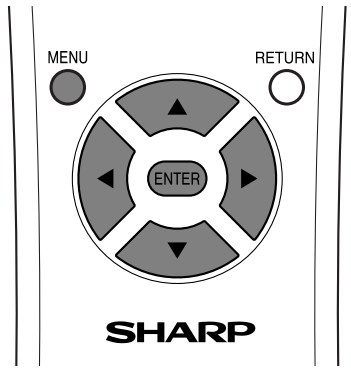
(minutes)

NOTE

- Select “0” by pressing **SLEEP** to cancel the sleep timer.
- When the sleep timer is working, its indicator on the Display lights red.

Cool climate

Improves LCD response when viewing fast-moving images. The effect is greater at low room temperatures (at or below 15˚C/59˚F).

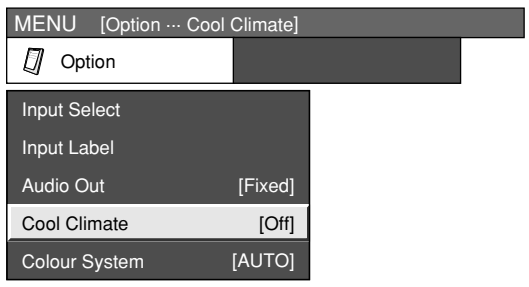


AV input mode

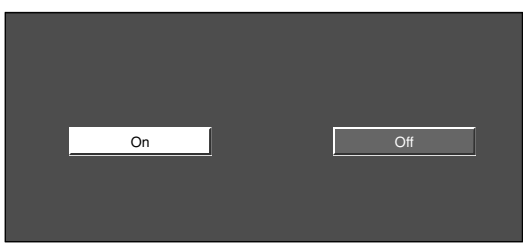
1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Option”.
- Option menu displays.

3 Press ▲/▼ to select “Cool Climate”, and then press **ENTER**.



4 Press ◀/▶ to select “On”, and then press **ENTER**.



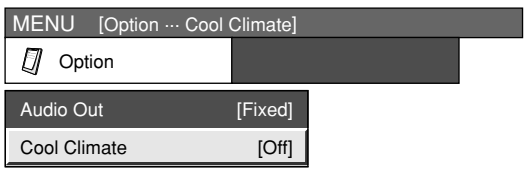
NOTE
- Cool climate may cause image noise. If this occurs turn the function “Off”.
- Cool Climate can be set differently for AV input mode and PC input mode.

PC input mode

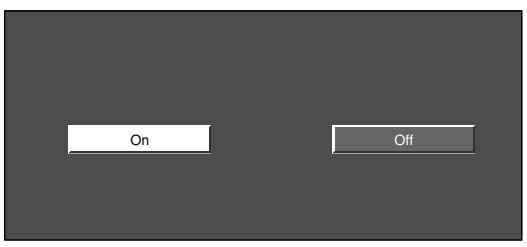
1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Option”.
- Option menu displays.

3 Press ▲/▼ to select “Cool Climate”, and then press **ENTER**.



4 Press ◀/▶ to select “On”, and then press **ENTER**.



NOTE
- Cool climate may cause image noise. If this occurs turn the function “Off”.
- Cool Climate can be set differently for AV input mode and PC input mode.

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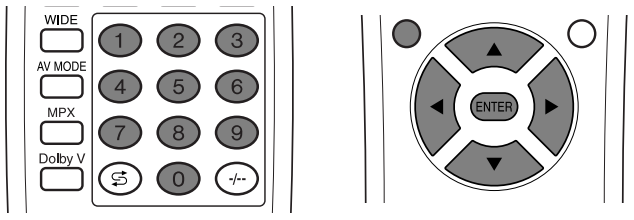
Password setting for child lock (TV mode only)

Allows you to use a password to protect certain settings from being accidentally changed.



Changing a password

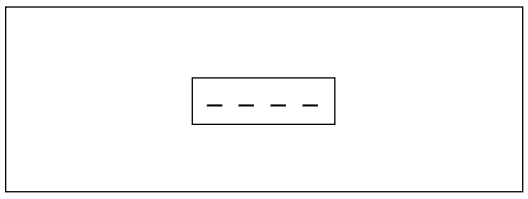
You can change the factory preset password "1234" to another 4-digit number you like.

1 Press **MENU** and the MENU screen displays.

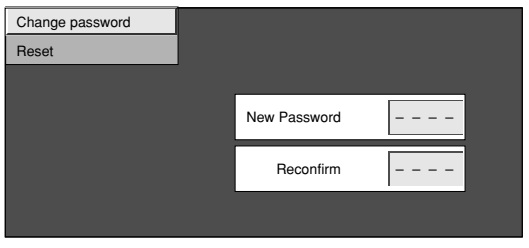
2 Press ◀/▶ to select "Setup".
- Setup menu displays.

3 Press ▲/▼ to select "Child Lock", and then press **ENTER**.

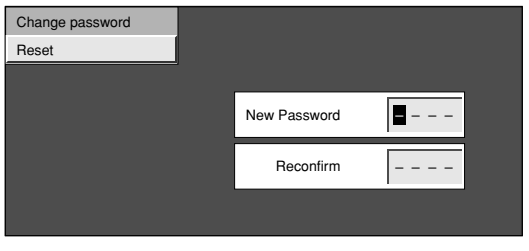
4 If you already set the password, enter it here. If not, enter the factory preset password "1234".



5 Press ▲/▼ to select "Change password", and then press **ENTER**.



6 Enter the 4-digit number as a password using **0** – **9**.



7 Enter the same 4-digit number as in step 5 to confirm.
- "The new password is registered." displays.

NOTE

- To view a locked channel (Lock setting in Programme Setup "Manual" is set to "On"), you must enter a password. (See page 31.) When you select a locked channel, a password prompt message pops up. Press **ENTER** to display the password input window.

Reset the password

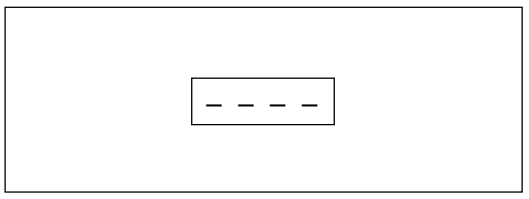
Allows you to reset your password.

1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select "Setup".

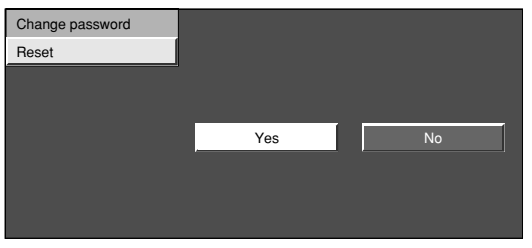
3 Press ▲/▼ to select "Child Lock", and then press **ENTER**.

4 If you already set the password, enter it here. If not, enter the factory preset password "1234".



5 Press ▲/▼ to select "Reset", and then press **ENTER**.

6 Press ◀/▶ to select "Yes", and then press **ENTER**.



NOTE

- **As a precautionary measure, make a note of your password and keep it in a familiar place. If you lose or forget your password, initialise the System to return all settings except for the TV channel settings to factory preset values. (See page 75.)**

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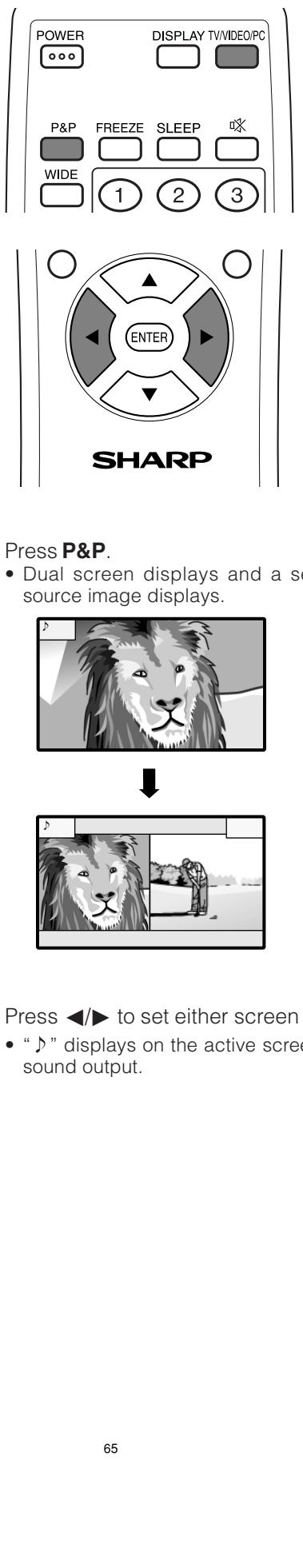
Useful features

Dual screen functions

Allows you to display two pictures on the screen at one time.

Dual screen

You can display two same-sized pictures except when inputting from a PC INPUT terminal.



1 Press **P&P**.

- Dual screen displays and a selected input source image displays.

2 Press ◀/▶ to set either screen to be active.

- "♪" displays on the active screen, which has sound output.

3 Press **TV/VIDEO/PC** to select another input source on the active screen.

- A selected image displays.

4 Press **P&P** to exit dual screen.

NOTE

- This function does not work under the following input conditions:
  ①PC INPUT mode,
  ②Two pictures from the same source (e.g. INPUT 1 and INPUT 1),
  ③Two pictures with different vertical frequency (e.g. PAL and PAL-60).
- When this function is not available, "No dual screen display available." will display.

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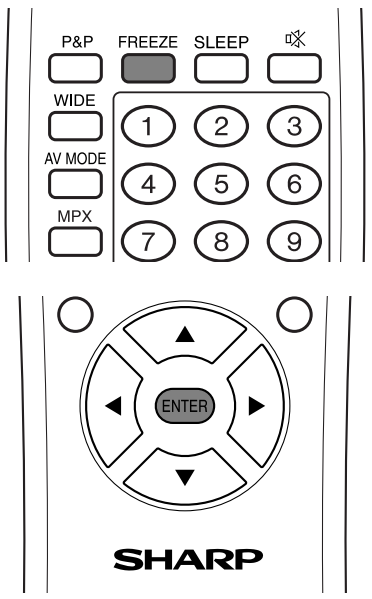
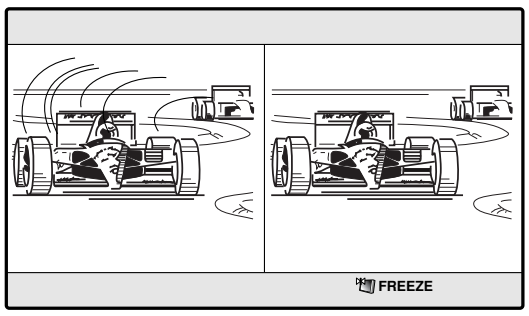
Picture and still image

You can display two same-sized pictures – one moving and one still – when inputting from an AV source.



1 Press **FREEZE**.

- A moving image displays on the left screen and a still image displays on the right screen. The still image is one frame captured from a moving image at the moment you press **FREEZE**.



2 Update the still image by pressing **ENTER**.

- Each time you press **ENTER**, the image on the right screen updates.

3 Press **FREEZE** to exit still image.

NOTE

- This function does not work in PC input mode.
- When this function is not available, “No still image display available.” will display.
- The still image automatically goes out after 30 minutes.

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Appendix

Troubleshooting

Problem	Possible Solution
• No power.	• Make sure the Display and the AVC System are connected correctly. (See page 7.) • Check if you pressed **POWER** on the remote control unit. (See page 19.) If the indicator on the Display lights up red, press ⏻/I (STANDBY/ON) button. • Is the AC cord disconnected? (See page 18.) • Has the main power been turned on? (See page 19.)
• Unit cannot be operated.	• External influences such as lightning, static electricity, etc., may cause improper operation. In this case, operate the unit after first turning the power of the Display and the AVC System, or unplugging the AC cord and re-plugging it in after 1 or 2 minutes.
• Remote control unit does not operate.	• Are batteries inserted with polarity (+, −) aligned? (See page 13.) • Are batteries worn out? (Replace with new batteries.) • Are you using it under strong or fluorescent lighting? • Is a fluorescent light illuminated to remote control sensor?
• Picture is cut off.	• Is the image position correct? (See pages 51 and 52.) • Are screen mode adjustments such as picture size made correctly? (See pages 57 to 59.)
• Strange colour, light colour, or dark, or colour misalignment.	• Adjust the picture tone. (See pages 35 to 39 and 63.) • Is the room too bright? The picture may look dark in a room that is too bright. • Check the colour system setting. (See pages 30 and 56.) • Check the input signal setting. (See page 54.)
• Power is suddenly turned off.	• The unit's internal temperature has increased. Remove any objects blocking vent or clean. • Check the power control setting. (See pages 42 and 43.) • Check the sleep timer setting. (See page 62.)
• No picture.	• Is connection to other components correct? (See pages 44 to 48.) • Is correct input signal source selected after connection? (See page 54.) • Is the correct input selected? (See page 54.) • Is a non-compatible signal being input? (See page 68.) • Is picture adjustment correct? (See pages 35 to 39.)
• No sound.	• Is the volume too low? (See page 21.) • Is "Variable" selected in "Audio Out"? (See page 62.) • Is correct speaker output ("External" or "Detachable") selected in "Speaker"? (See page 50.) • During Auto search, the sound system should automatically be detected. However, auto-detect may not find some signals, in which case choose Manual. (See page 30.)
• Picture is not clear. • No sound. (Even though the System is receiving bilingual and stereo signals, there is no sound and the mode menu does not display.)	• The Auto search (or Auto Installation) automatically searches for compatible sound systems, but may not detect them depending on electric field conditions. In that case, adjust to optimum sound system position by following directions on page 30.

Cautions regarding use in high and low temperature environments

- When the unit is used in a low temperature space (e.g. room, office), the picture may leave trails or appear slightly delayed. This is not a malfunction, and the unit will recover when the temperature returns to normal.
- Do not leave the unit in a hot or cold location. Also, do not leave the unit in a location exposed to direct sunlight or near a heater, as this may cause the cabinet to deform and the LCD panel to malfunction.
  Storage temperature: –20°C to +60°C (–4°F to +140°F).

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PC compatibility chart

Resolution	Frequency	Remarks
640×400	85 Hz	
720×400	70 Hz	
	85 Hz	
640×480	60 Hz	
	65 Hz	Macintosh 13″ (67 Hz)
	72 Hz	
	75 Hz	
	85 Hz	
800×600	56 Hz	
	60 Hz	
	72 Hz	
	75 Hz	
	85 Hz	
832×624	74.5 Hz	Macintosh 16″
1024×768	60 Hz	
	70 Hz	
	75 Hz	Macintosh 19″
	85 Hz	
1280×768	60 Hz	
1280×1024	60 Hz	
1366×768*	60 Hz	

* LC-37AA1H only.

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DDC is a registered trademark of Video Electronics Standards Association.
Power Management is a registered trademark of Sun Microsystems, Inc.
VGA and XGA are registered trademarks of International Business Machines Co., Inc.

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RS-232C port specifications

PC Control of the System

- When a program is set, the display can be controlled from the PC using the RS-232C terminal. The input signal (PC/AV) can be selected, the volume can be adjusted and various other adjustments and settings can be made, enabling automatic programmed playing.

- Attach an RS-232C cable cross-type (commercially available) to the supplied Din/D-Sub RS-232C for the connections.

NOTE

- This operation system should be used by a person who is accustomed to using PCs.

Communication conditions

Set the RS-232C communications settings on the PC to match the display's communications conditions. The display's communications settings are as follows:

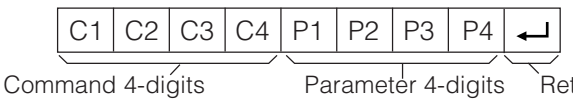
Baud rate:	9,600 bps
Data length:	8 bits
Parity bit:	None
Stop bit:	1 bit
Flow control:	None

Communication procedure

Send the control commands from the PC via the RS-232C connector.
The Display operates according to the received command and sends a response message to the PC.
Do not send multiple commands at the same time. Wait until the PC receives the OK response before sending the next command.

Command format

Eight ASCII codes + CR



Command 4-digits: Command. The text of four characters.
Parameter 4-digits: Parameter 0 – 9, x, blank, ?

Parameter

Input the parameter values, aligning left, and fill with blank(s) for the remainder. (Be sure that four values are input for the parameter.)
When the input parameter is not within an adjustable range, "ERR" returns. (Refer to "Response code format".)
No problem to input any numerical value for "x" on the table.

0			
0	0	0	9
–	3	0	
1	0	0	
0	0	5	5

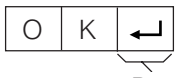
When "?" is input for some commands, the present setting value responds.

?			
?	?	?	?

Appendix

Response code format

Normal response



Return code (0DH)

Problem response (communication error or incorrect command)

Return code (0DH)

Commands

CONTROL ITEM	COMMAND				PARAMETER				CONTROL CONTENTS
POWER SETTING	P	O	W	R	0	_	_	_	POWER OFF (STANDBY)
INPUT SELECTION A	I	T	G	D	x				INPUT SWITCHING (TOGGLE)
	I	T	V	D	0	_	_	_	TV (CHANNEL FIXED)
	I	T	V	D	*	*	_	_	TV (CHANNEL SELECTION) (1 – 99)
	I	A	V	D	*	_	_	_	INPUT1 – 4 (1 – 4)
	I	P	C	D	x				PC
INPUT SELECTION B	I	N	P	1	0	_	_	_	INPUT1 (AUTO)
	I	N	P	1	1	_	_	_	INPUT1 (COMPONENT)
	I	N	P	1	2	_	_	_	INPUT1 (S-VIDEO)
	I	N	P	1	3	_	_	_	INPUT1 (VIDEO)
	I	N	P	2	0	_	_	_	INPUT2 (AUTO)
	I	N	P	2	1	_	_	_	INPUT2 (S-VIDEO)
	I	N	P	2	2	_	_	_	INPUT2 (VIDEO)
	I	N	P	3	0	_	_	_	INPUT3 (AUTO)
	I	N	P	3	1	_	_	_	INPUT3 (COMPONENT)
	I	N	P	3	2	_	_	_	INPUT3 (S-VIDEO)
	I	N	P	3	3	_	_	_	INPUT3 (VIDEO)
	I	N	P	4	0	_	_	_	INPUT4 (AUTO)
	I	N	P	4	1	_	_	_	INPUT4 (S-VIDEO)
	I	N	P	4	2	_	_	_	INPUT4 (VIDEO)
AV MODE SELECTION	A	V	M	D	0	_	_		TOGGLE
	A	V	M	D	1	_	_	_	STANDARD
	A	V	M	D	2	_	_	_	DYNAMIC
	A	V	M	D	3	_	_	_	MOVIE
	A	V	M	D	4	_	_	_	GAME
	A	V	M	D	5	_	_	_	USER
VOLUME	V	O	L	M	*	*	_	_	VOLUME (0 – 60)
POSITION	H	P	O	S	*	*	*	_	H-POSITION (AV) (– 10 – + 10)
	H	P	O	S	*	*	*	_	H-POSITION (PC) (0 – 180)
	V	P	O	S	*	*	*	_	V-POSITION (AV) (– 20 – + 20)
	V	P	O	S	*	*	*	_	V-POSITION (PC) (0 – 99)
	C	L	C	K	*	*	*	_	CLOCK (0 – 180)
	P	H	S	E	*	*	*	_	PHASE (0 – 40)

CONTROL ITEM	COMMAND				PARAMETER				CONTROL CONTENTS
WIDE MODE	W	I	D	E	0	_	_	_	TOGGLE
	W	I	D	E	1	_	_	_	NORMAL (AV)
	W	I	D	E	2	_	_	_	FULL 14:9 (AV)
	W	I	D	E	3	_	_	_	ZOOM 14:9 (AV)
	W	I	D	E	4	_	_	_	PANORAMA (AV)
	W	I	D	E	5	_	_	_	FULL (AV)
	W	I	D	E	6	_	_	_	CINEMA 16:9 (AV)
	W	I	D	E	7	_	_	_	CINEMA 14:9 (AV)
	W	I	D	E	8	_	_	_	NORMAL (PC)
	W	I	D	E	9	_	_	_	FULL (PC)
	W	I	D	E	1	0	_	_	DOT BY DOT (PC)
	W	I	D	E	1	1	_	_	CINEMA (PC)
Dolby Virtual	A	C	D	V	0	_	_	_	TOGGLE
	A	C	D	V	1	_	_	_	ON
	A	C	D	V	2	_	_	_	OFF
DUAL SCREEN	T	W	I	N	0	_	_	_	DUAL SCREEN OFF
	T	W	I	N	1	_	_	_	DUAL SCREEN ON
CHANNEL	D	C	C	H	*	*	_	_	DIRECT CHANNEL (1 – 99)
	C	H	U	P	x				CHANNEL UP
	C	H	D	W	x				CHANNEL DOWN

NOTE

- If an underbar (_) appears in the parameter column, enter a space.
- If an asterisk (*) appears, enter a value in the range indicated in brackets under CONTROL CONTENTS.

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Specifications

Item				37″ LCD COLOUR TV, Model:LC-37AA1H	30″ LCD COLOUR TV, Model:LC-30AA1H
LCD panel				37″ Advanced Super View & BLACK TFT LCD	30″ Advanced Super View & BLACK TFT LCD
Number of dots				3,147,264 dots (1366 × 768 × 3 dots)	2,949,120 dots (1280 × 768 × 3 dots)
Video Colour System				PAL/SECAM/NTSC 3.58/NTSC 4.43/PAL 60	
TV Function	TV-standard (CCIR)			PAL: B/G, D/K, I SECAM: B/G, D/K NTSC: M	
	Receiving Channel		VHF/UHF	44.25-863.25 MHz	
			CATV	Hyper-band, S1–S41ch	
	TV-Tuning System			Auto Preset 99 ch	
	STEREO/BILINGUAL			NICAM/A2	
Brightness				430 cd/m^2	
Backlight				60,000 hours (at Manual 0 position)	
Viewing angles				H : 170° V : 170°	
Audio amplifier				10W × 2	
Speakers				Ø 8 cm 2pcs, Ø 2.5 cm 2pcs	
Terminals	AVC System	Rear	INPUT 1	AV in, S-VIDEO in, COMPONENT VIDEO in	
			INPUT 2	AV in, S-VIDEO in	
			INPUT 3	AV in, S-VIDEO in, COMPONENT VIDEO in	
			ANTENNA	75 Ω Din Type	
			MONITOR OUTPUT	Audio (Variable, Fixed), S-VIDEO out, VIDEO out	
			DC OUTPUT	DC 6.5V 7W MAX	
			SP OUTPUT	External speaker output terminal (L and R)	
		Front	INPUT 4	S-VIDEO, AV in	
			PC INPUT	15 Pin mini D-Sub, Audio in (Ø 3.5mm jack)	
			Headphones	Ø 3.5mm jack	
OSD language				English/Chinese/Arabic	
Power Requirement				AC 110–240 V, 50/60 Hz	
Power Consumption	AVC System			34 W (0.9 W Standby)	
	Display			135 W (0.9 W Standby)	92 W (0.3 W Standby)
Weight	AVC System			5.4 kg (w/o stand), 5.5 kg (with stand)	
	Display			16.9 kg (Display only) 20.4 kg (with Display and speakers) 25.0 kg (with Display, speakers and stand)	13.1 kg (Display only) 16.1 kg (with Display and speakers) 20.1 kg (with Display, speakers and stand)
Accessories				Operation manual, Remote control unit (×1), System cable (×1), AC cord (×2), “AA” size battery (×2), Stand unit (×1), Cable clamp (Large ×1, Small ×1), Antenna cable (×1)	

- As a part of policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

Optional accessories

The listed optional accessories are available for the LCD colour TV. Please purchase them at your nearest shop.

- Additional optional accessories may be available in near future. When purchasing, please read the newest catalogue for compatibility and check the availability.

No.	Part name	Part number
1	Wall mount bracket	AN-37AG1
2	System cable (7 meters)	AN-07SC1

IMPORTANT

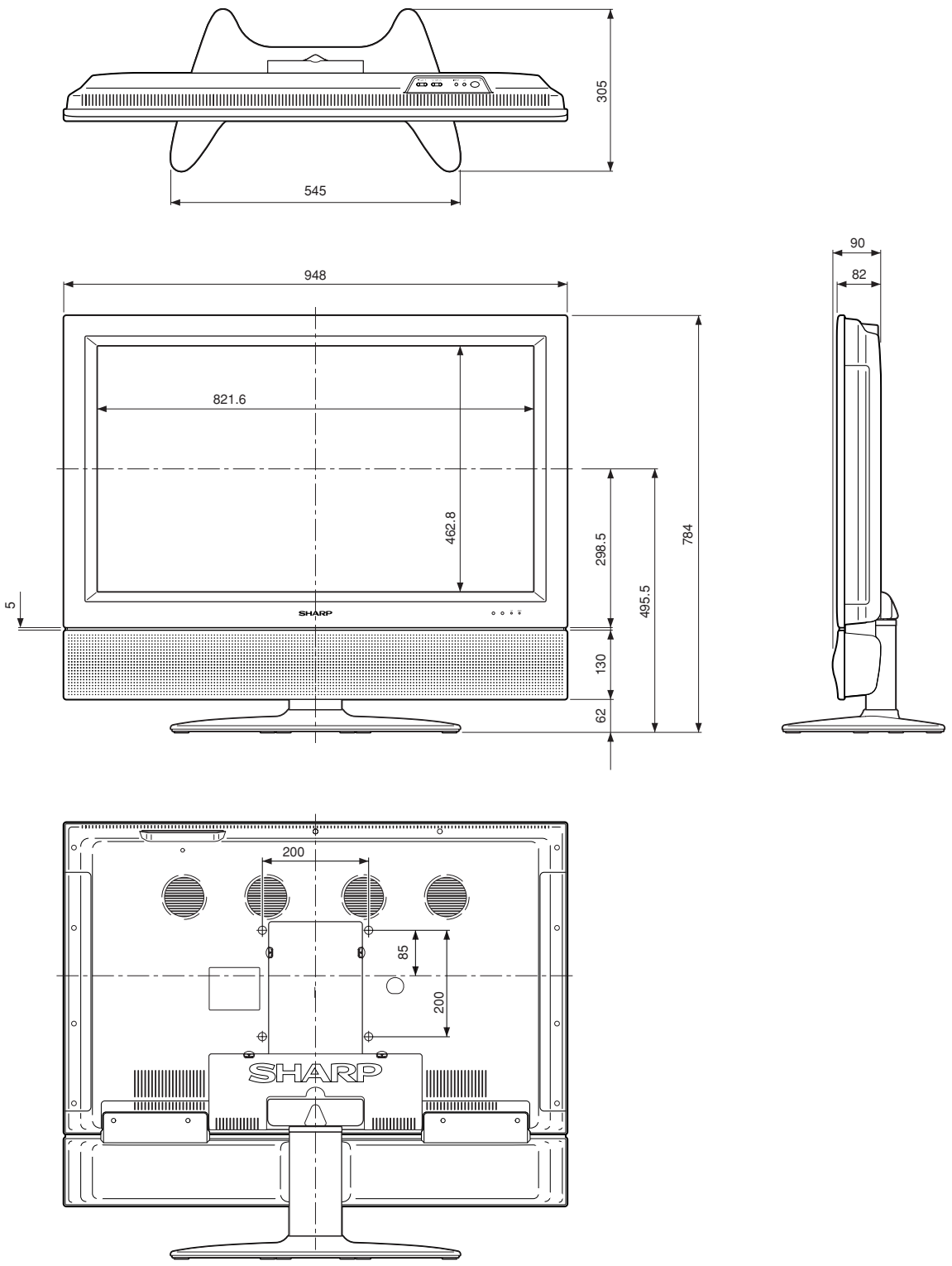
- **You cannot use external speakers when you are using the optional system cable (AN-07SC1).**

Dimensional drawings

Display

Unit: mm

■ **LC-37AA1H**

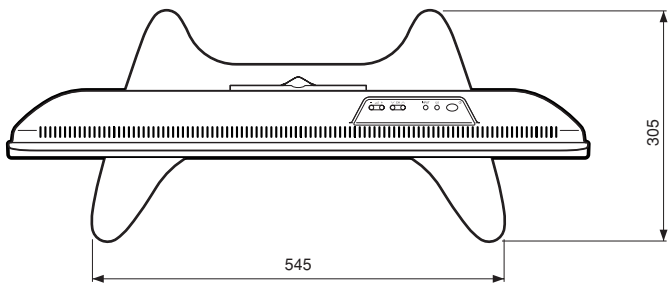


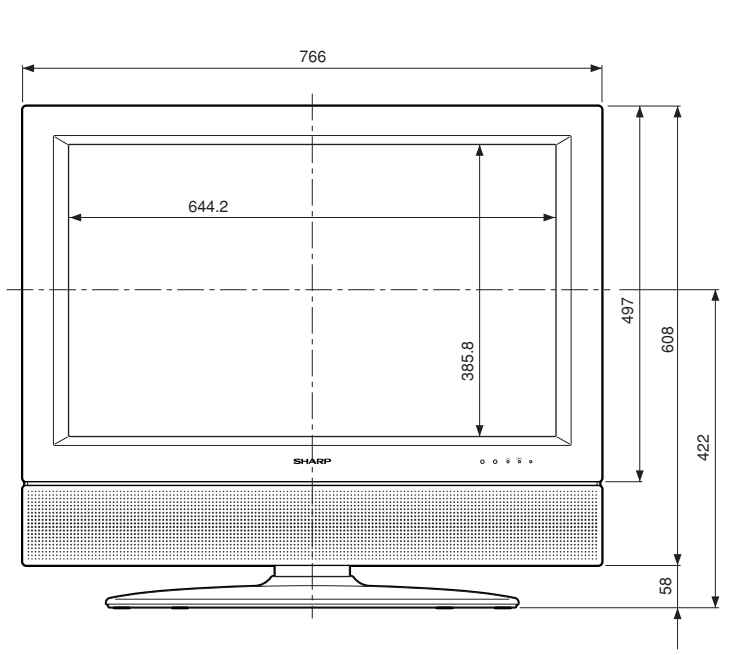
Dimensional drawings

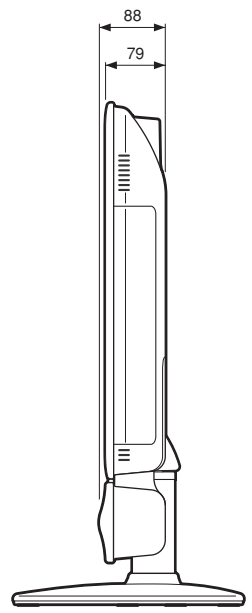
Display

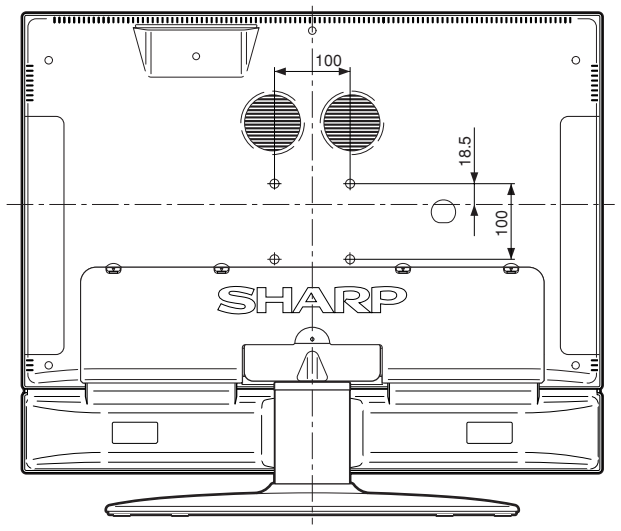
Unit: mm

LC-30AA1H





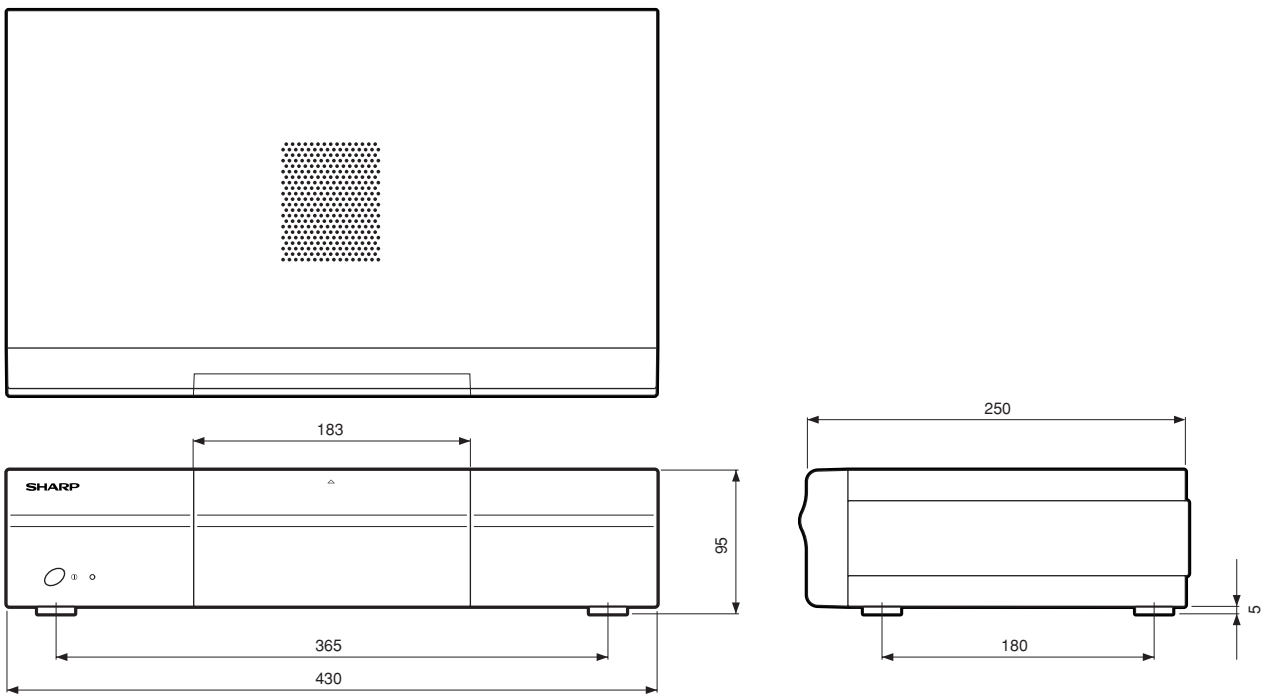




Dimensional drawings

AVC System

Unit: mm



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HOW TO SET THE FACTORY PRESETS

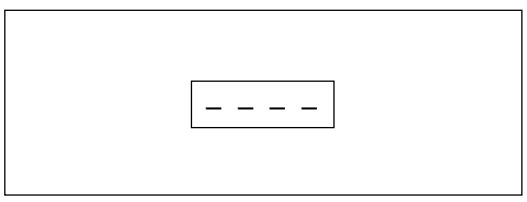
Press and hold down **CLEAR** on the AVC System while it is in standby mode. Then press ⏻ | (STANDBY/ON) button on the Display or **POWER** on the remote control unit to turn the System on.
All setting items (except TV channel) return to the factory presetting.

NOTE

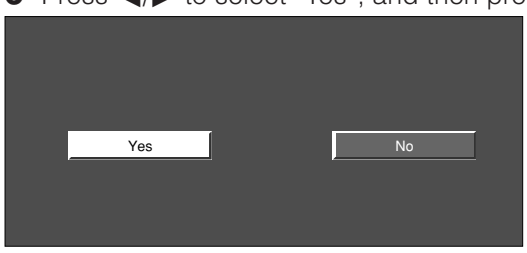
- Running the factory presetting operation also reset the password to the factory preset “1234”.

You can run the Auto Installation again by using the following steps.

1 Turn on the power of the Display and the AVC System.
2 Press **MENU**. (Make sure the menu screen displays.)
3 Press ◀/▶ to select “Setup”.
4 Press ▲/▼ to select “Auto Installation”, and then press **ENTER**.
5 The password setting screen displays, you need to enter the factory preset password “1234”.



6 Press ◀/▶ to select “Yes”, and then press **ENTER**.



The password is | | | | | **.**

NOTE

- As a precautionary measure, make a note of your password above, scissor it from this manual, and keep it in a familiar place.

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